ARCELORMITTAL BURNS HARBOR LLC

PROGRESS REPORT AND TERMINATION REQUEST – CORRECTIVE MEASURES FOR DIESEL FUEL RELEASE

Locomotive and Mobile Equipment Shop

250 WEST US HIGHWAY 12 BURNS HARBOR, INDIANA 46304-9745

PREPARED BY



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1 INTRODUCTION

1.1 General

Weaver Consultants Group, LLC (WCG) has completed this report as described in WCG Budgetary Quote M90405-Q (Rev. 1), dated January 13, 2015, and as authorized by ArcelorMittal Steel USA (ArcelorMittal) Purchase Order No. B445311 (Rev. 001).

1.2 Purpose and Objective

The following report is provided to describe a subsurface release of diesel fuel discovered in 2007 and subsequent corrective measures undertaken by ArcelorMittal Burns Harbor LLC (ArcelorMittal) just north of the Locomotive and Mobile Equipment Shop. This progress report is expanded from its usual format to respond to the Environmental Protection Agency's (EPA's) October 25, 2010 request for additional information regarding conformance with soil, free product recovery, and groundwater remediation requirements for petroleum releases under the Indiana Department of Environmental Management's Risk Integrated System of Closure (RISC). As explained herein, corrective measures have now been completed to the extent practicable and risk to human health or the environment posed by residual petroleum hydrocarbons is negligible. This report therefore concludes with a request for approval to terminate the corrective measures currently on-going since 2008.

1.3 Report Organization

Section 1.0 provides general information and describes the purpose and objective for this Report. Background and historical information are provided in **Section 2.0**. The physical setting, hydrogeological conditions, and conceptual model of the site are discussed in **Section 3.0**. On-going diesel fuel recovery operations, monitoring, and results obtained are described in **Section 4.0**. Conclusions and a recommendation to terminate the on-going corrective measure are provided in **Section 5.0**.

2.1 Summary of Release and Corrective Measures

A subsurface release of diesel fuel was discovered north of the Locomotive and Mobile Equipment Shop during a routine construction project in December 2007. The release was encountered during excavation for a foundation pier for a new locomotive fuel dispensing system. A likely source of the release was subsequently found to be the underground pipe that formerly conveyed the diesel fuel from the above ground storage tank (AST) to the former locomotive fueling rack at the locations shown on **Figure 1**.

Immediate responses mounted by ArcelorMittal included the use of a vacuum truck to recover liquid diesel fuel and water found perched in shallow subsurface fill soil. Follow-up responses included the excavation and off-site disposal of approximately 3,100 cubic yards of diesel fuel-impacted soil and recovery of liquid diesel fuel using a vacuum truck beginning on December 5, 2007. The volume of diesel fuel vacuumed directly from the excavation was not measured or tallied, but is estimated by WCG to have comprised several thousand gallons based on our visual observations of the effort. When the excavation was concluded April 8, 2008, soil samples indicated that the sidewall banks were remediated to Indiana Department of Environmental Management (IDEM) industrial default closure levels. The occurrence of groundwater at approximately 8 to 10 ft below ground surface precluded the removal of deeper soils. By May 6, 2008, the excavation was backfilled and replacement of the tracks was substantially complete. The foregoing response actions are described in the following report: Corrective Action Completion Report for Diesel Fuel-Impacted Soil, July 31, 2008, Weaver Boos Consultants, LLC, South Bend, Indiana.

As the soil remediation was completed in early 2008, ArcelorMittal was aware that free product remained along the surface of the water table, and therefore retained WCG to design, install, and operate a free product recovery system utilizing vacuum enhanced in-well skimming technology. This system was installed to remediate free product from the aquifer soils at depths below the groundwater table, consistent with IDEM policies for remediation and risk-based site closure. The free product recovery system was

completed and placed into operation on March 18, 2009 as described in the following report: Progress Report, Diesel Fuel Free Product Recovery, Locomotive and Mobile Equipment Shop, dated August 4, 2009.

3 CONCEPTUAL MODEL

The site of the diesel fuel release is located in the west-central portion of the approximately 3,300-acre integrated steel-making facility as shown on **Figure 1**. Land usage in the immediate vicinity of the release includes several railroad tracks providing access to the Locomotive and Mobile Equipment Repair Shop and is exclusively industrial. The facility was originally constructed by the Bethlehem Steel Company beginning in 1962. Prior to 1962 the facility was undeveloped except for the mining of sand. An institutional control consisting of a deed restriction recorded by ArcelorMittal (or predecessor) prohibits current and future use of groundwater for potable purposes. This control was established as part of the facility's RCRA Corrective Action process to provide for the use of industrial closure or screening levels.

The ArcelorMittal facility is located in an area designated as the Northern Moraine and Lake Region physiographic province, which formed as the last continental glaciation came to a close. The entire region is underlain by thick unconsolidated sediments deposited under glacial and coastal environments. Specifically, the facility is situated within the Calumet lacustrine plain physiographic subdivision. The Calumet lacustrine plain evolved within the bed of glacial Lake Chicago as it advanced and retreated during the last 14,500 years. During this time sediment was initially supplied by littoral transport from the eastern shore of the Lake, and later, from both sides of the Lake.

The ground surface elevation within most of the facility is approximately 614 feet above mean sea level (msl). The bedrock surface subcrops beneath the facility at an elevation of approximately 450 feet, indicating that the unconsolidated soils are about 160 feet thick. Historical subsurface investigations in connection with the construction of the ArcelorMittal facility have included hundreds of soil borings. A generalized unconsolidated profile may be inferred from these borings as follows:

Generalized Subsurface Profile

Unconsolidated Stratum	Approximate Top Elevation (feet msl)	Approximate Bottom Elevation (feet msl) or Thickness
Fine Sand	614	505 to 550
Organic Silt	580 to 590	Approximately 1 to 5 ft thick
Silty Clay	505 to 550	Not reported

The principal subsurface soil type is fine to medium textured sand laid down by wind and water along the former shoreline of Lake Michigan. The sand is permeable to fluid flow and exhibits a typical saturated hydraulic conductivity of about 2.5×10^{-2} cm/s as determined by several pumping tests and temporary dewatering for construction of facility basements and other deeper structures. The water table fluctuates and is usually found at an elevation of about 600 to 606 feet msl.

Subsurface conditions encountered while drilling the piezometers (FP-1, -3, and FP-3) and remediation wells (RW-1, -2, -3, and RW-4) located as shown on **Figure 2** were consistent with the professional literature and prior soil borings advanced at the facility. The well and boring logs provided in **Appendix A** consistently show fine to medium sand to the terminus of each well that extends to 20 ft below ground surface (bgs). Monitoring and Remediation Well Information is also summarized on **Table 1**.

Groundwater is recharged by precipitation and infiltration through the generally level surface of the overall facility property. Groundwater flows typically to the nearest surface water features that include Lake Michigan and the Burns International Harbor to the north and west. Groundwater beneath the east-central parts of the facility typically flows towards the stormwater/non-contact cooling water discharge channel draining that part of the property.

Site specific groundwater level elevations measured on May 29, 2015 are summarized on **Table 2** and show that the depth to groundwater is approximately 11 ft bgs, corresponding to an elevation of approximately 602 ft. The level of Lake Michigan measured at the east arm of the Burns International Harbor was 580.50 ft. The groundwater level elevations are plotted to the site as shown on **Figure 3**. The groundwater flow direction is west-northwesterly, towards the surface water of the

Burns International Harbor as expected based on the site hydrogeology and conceptual model. The horizontal flow gradient for the pathline represented by the arrow is a gentle 0.003 ft/ft. Although the soils are permeable, flow rates beneath the site are estimated at less than one foot per day, providing little impetus for migration.

Under conditions specific to the site, the diesel fuel free product constitutes a light nonaqueous phase liquid (LNAPL) occurring mainly as residual product bound to the soil matrix of the aquifer and to a lesser extent as free product that is mobile and thus recoverable. Risk posed by the diesel fuel included the horizontal spreading of the mobile free product, phase partitioning to the underlying groundwater and overlying unsaturated soil pore vapor, and potential migration through the groundwater and soil The residual product contained in unsaturated subsurface soil was pore vapor. successfully removed during the initial response action between December 2007 and April 2008, which significantly reduced the quantity of diesel fuel in the subsurface. Subsequent response actions, consisting of vacuum enhanced skimming, further mitigated the remaining potential risk by removing approximately 1,409 gallons of diesel fuel while continuously drawing unsaturated soil vapor to the four recovery wells since March 2009. Diesel fuel was initially recovered at rates as high as 100 gallons per month and have declined significantly since corrective measures began. Over the last year, the average rate of recovery has declined to a de minimis level of just two gallons per month.

Additional investigation of shallow groundwater quality immediately beneath the site was undertaken during 2Q 2015. As further explained herein, petroleum hydrocarbon impacts to the underlying groundwater are at concentrations well below IDEM's commercial/industrial default closure levels applicable for the property. Additionally, the measured groundwater concentrations are well below IDEM's more recently published screening levels for vapor migration and vapor intrusion to occupied Risks posed by migration through groundwater or soil pore vapor are therefore considered negligible. Practicably recoverable free product is now exhausted. This mitigates the potential risk of migration of the formerly mobile free product. The remainder of the residual diesel fuel is immobile and is not significantly affecting groundwater quality. Unrecoverable residual diesel fuel will naturally biodegrade over No significant additional environmental benefit is expected to accrue from continued operation of the remediation system.

4.1 Operations and Maintenance

Operation of the remediation system has been nearly continuous since it was placed into service in March 2009. WCG operated, monitored, and maintained the system during weekly site visits consistent with the standard operating procedure (SOP) provided with the first written progress report. Performance is measured by gauging the accumulation tank and by checking the apparent thickness of diesel fuel free product in the recovery wells. Operating parameters requiring adjustment include setting the vacuum level (12 to 16 inches of water) and setting the pump intake levels to match fluctuating groundwater levels in the wells. Maintenance items included checking and replacement of the vapor extraction system's inline filter as needed, checking and replacement of the air compressor intake filter as needed, regular replacement of the air compressor lubricating oil, and clearing the vapor extraction collection lines of condensate each week.

Weekly operations and maintenance report forms completed between April 3 and June 25, 2015 are provided in **Appendix B**. Skimmer pumps RW-3 and RW-4 were inactive during 1Q 2015 because of mechanical failure. Both skimmer pumps were removed from their respective wells and shipped to the manufacturer for repair. WCG subsequently reinstalled the pumps and reactivated the remediation system to full operation on April 10, 2015.

4.2 Diesel Fuel Recovery

The remediation system has thus far recovered approximately 1,409 gallons of diesel fuel and approximately 1,893 gallons of ancillary groundwater since remediation began in early 2009. The quantities of diesel fuel and water collected by the remediation system are summarized on **Table 3**. For 2Q 2015, the final volume of fuel in the accumulation tank increased by 10 gallons from the final reading of 1Q 2015. These 10 gallons were recovered by May 22, which was shortly after the mechanically reconditioned skimmer pumps were reinstalled in remediation wells RW-3 and RW-4. This indicates that the remediation system rapidly compensated for the inactivity of RW-

3 and RW-4 during 1Q 2015. It is therefore most appropriate to consider that the last 13 gallons recovered is representative of the recoverable quantity of diesel fuel that was available during the first six months of 2015.

Cumulative diesel fuel recovered is charted as shown on **Figure 4**. This chart shows relatively rapid and steady accumulation through 2009 when 598 gallons were recovered. After 2009, the accumulation of free product tapered. Noticeable up-ticks in accumulation of free product occurred in the spring/summer of 2010, 2011, and 2013. No similar uptick was observed during 2014 and none is evident thus far in 2015, indicating that practicably recoverable free product is now exhausted.

The calculated rate of diesel fuel recovery (gallons per day) is charted on **Figure 5**. Negative rates reflect either difficulty in accurately reading the water level in the accumulation tank by our operator who uses color-changing water-finding paste applied to a tape measure for this purpose, or possibly the cross-dissolution of water and oil between the separate liquid phases. Several peaks approaching 8 gallons per day are indicated since remediation began, but the average rate is usually much lower. During 1Q and 2Q 2015, the daily rate has averaged 0.069 gallons per day, which is only 2 gallons per month. This decline in recovery rate is due to the reduced transmissivity for mobile diesel fuel along the top of the water table resulting from the thinning of the diesel fuel-saturated thickness of the water table aquifer.

The apparent thickness of free product measured in recovery wells RW-1, RW-2, RW-3, and RW-4 is listed in **Table 4**. The thickness is described as "apparent" because it represents what is present in the well at the time of measurement and does not represent the thickness of mobile free product in the aquifer. The actual thickness in the aquifer formation is significantly less than the apparent thickness measured in a well. Additionally, the applied vacuum tends to increase the thickness of free product in a well, while the regular pumping of the recovery wells reduces its thickness. Time trends of apparent free product thickness are charted for the recovery wells as shown in **Figure 5**. The apparent thickness of free product measured during 1Q and 2Q 2015 remained at zero inches in RW-1 and RW-2. The apparent thickness of free product measured during 1Q and 2Q 2015 in RW-3 and RW-4 ticked up after the skimmer pumps were removed for service, but has since returned to its more typically one inch or less. This occurrence indicates the minimal accumulation of diesel fuel in these two wells while they were inactive between January 2 and April 10, 2015, and further demonstrates the now greatly reduced transmissivity value for diesel fuel free product.

4.3 Groundwater Sampling and Results

Groundwater samples were collected from piezometer FP-1 (MW-1) and the remediation wells RW-1, -2, -3, and RW-4 to assess the extent of dissolution of petroleum hydrocarbons from the residual diesel fuel to the aqueous phase of the underlying groundwater. The samples were collected on May 22, 2015 using dedicated disposable ¼-inch poly tubing inserted to the approximate center of each well screen, therefore bypassing the free product floating on top of the water column. The wells were gently purged using a peristaltic pump and standard flow-flow sampling techniques while field stability parameters (pH, SC, and temperature) were measured. Stability was indicated after purging typically 1.5 gallons as shown on the field sampling reports provided in **Appendix C**. Weaver Consultants Group has found that this sampling technique is usually able to provide representative samples of groundwater that include the dissolved, aqueous phase of petroleum-based contaminants while excluding the LNAPL phase that floats at the top of the water column.

Aliquots for volatile benzene, toluene, ethylbenzene, and xylene (BTEX) were containerized in 40 ml VOA vials preserved with HCl using the "soda straw" variation to minimize volatilization. This variation was implemented by stopping the pump, withdrawing the tube from the well, and reversing the pump at low speed to discharge the specimen into the VOA vial without passing it through the pump head. Aliquots for polycyclic aromatic hydrocarbons (PAHs) were then drawn through the pumphead and discharged to their respective amber glass containers in the usual manner.

The samples were then sealed, labelled, placed on ice, and documented using a chain-of-custody form and hand delivered to Microbac Laboratories, Inc. where they were analyzed for BTEX using Method 8260B and PAHs by Method 8270C. The resulting analytical report is provided in **Appendix C**.

Results obtained for the samples are summarized on **Table 5** and compared with IDEM's RISC industrial default closure levels and IDEM's RCG screening levels for vapor intrusion at industrial sites. The results indicate that BTEX and PAHs were either not detected, or if detected, the concentrations were well below their respective screening levels. These results are mapped to the site as shown on **Figure 7**. No impact to the groundwater immediately beneath the residual diesel fuel at concentrations above applicable screening levels is therefore indicated.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

With consideration for our observations, measurements, results obtained, and the relevant standards for assessing the effectiveness of corrective measures for petroleum release(s), WCG concludes the following consistent with prevailing professional principles and practice:

- 1. Immediate responses mounted by ArcelorMittal to the historical release of diesel fuel included the use of a vacuum truck to recover liquid diesel fuel and water found perched in shallow subsurface fill soil. Follow up responses included the excavation and off-site disposal of approximately 3,100 cubic yards of diesel fuel-impacted soil and recovery of additional liquid diesel fuel using a vacuum truck beginning on December 5, 2007. When the excavation was concluded April 8, 2008, soil samples indicated that the sidewall banks were remediated to industrial default closure levels.
- 2. The occurrence of groundwater at approximately 8 to 10 ft below ground surface precluded the removal of deeper soils exceeding industrial default closure levels at the base of the excavation, as did the need to restore two rail lines that were temporarily removed to facilitate the remediation. By May 6, 2008, the excavation was backfilled and replacement of the tracks was substantially complete.
- 3. Following the remediation of the accessible diesel fuel-impacted soil, active recovery of free product from atop the shallow water table began in March 2009 and continued through June 2015 as described herein. The remediation system has thus far recovered approximately 1,409 gallons of diesel fuel since remediation began on March 18, 2009. The measured recovery of diesel fuel thus far in 2015 is approximately 13 gallons. This indicates a de minimis recovery rate of 2 gallon per month for 1Q and 2Q 2015. This rate is equal to the 2 gallon per month termination criteria listed several times in U.S. EPA's 1996 Guide for

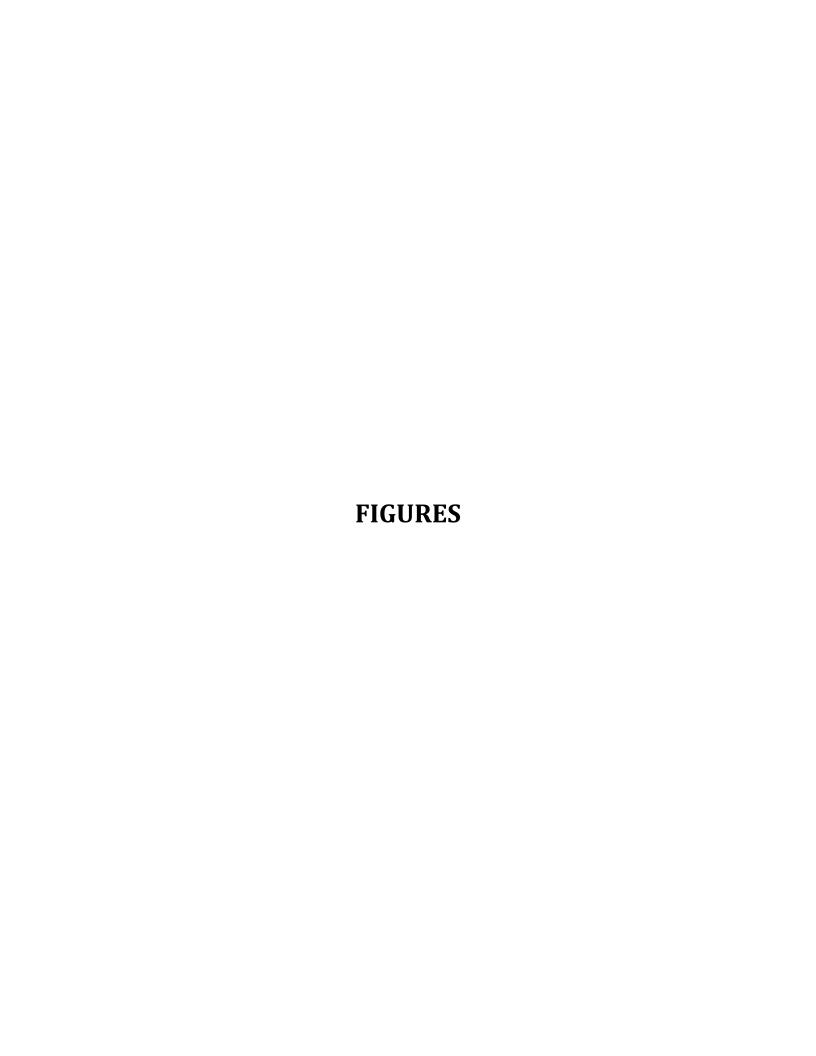
- State Regulators: How to Effectively Recover Free Product at Leaking Underground Storage Tanks Sites (EPA 510-R-96-001).
- 4. The remediation system continues to operate as designed, but practicably recoverable free product is now exhausted.
- 5. Sampling and analysis of shallow groundwater immediately beneath the remaining residual diesel fuel indicates BTEX and PAHs were either not detected, or if detected, the concentrations were well below their respective screening levels for industrial land use. No significant migration to the underlying groundwater or overlying soil pore vapor is therefore indicated.

5.2 Recommendations

Corrective measures continuing since 2008 have successfully recovered the diesel fuel release to the extent practicable and risks posed to human health or the environment by remaining residual diesel fuel have been reduced to a negligible level as discussed herein. Therefore, Weaver Consultants Group recommends and requests that the remedial operation be terminated. Operations will continue as directed by ArcelorMittal pending approval of this request for termination.

5.3 Qualifications and Limitations

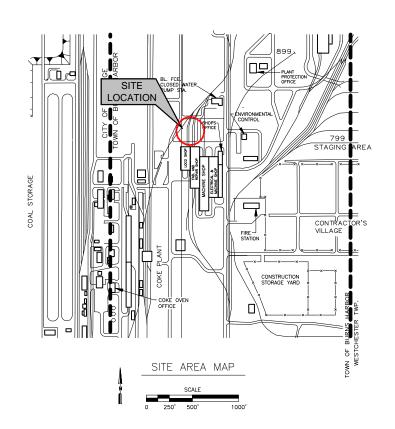
Weaver Consultants Group prepared this Report using a defined scope of services considered appropriate and agreed upon by all parties on the date the service was authorized and in accordance with generally accepted practices in a manner consistent with that level of care exercised by other members of our profession in the same locality and practicing under similar circumstances. Our professional opinions are based upon our review of historical data and information, our visual observations of the subsurface conditions, and the results we obtained during remediation and monitoring. Conditions in areas not specifically sampled or analyzed may differ. Although the scope of work is believed by WCG to be appropriate to address the stated objectives, we note that no environmental assessment can completely eliminate uncertainty with respect to the presence, nature, concentration, or extent of contaminants of potential concern in soil or groundwater.

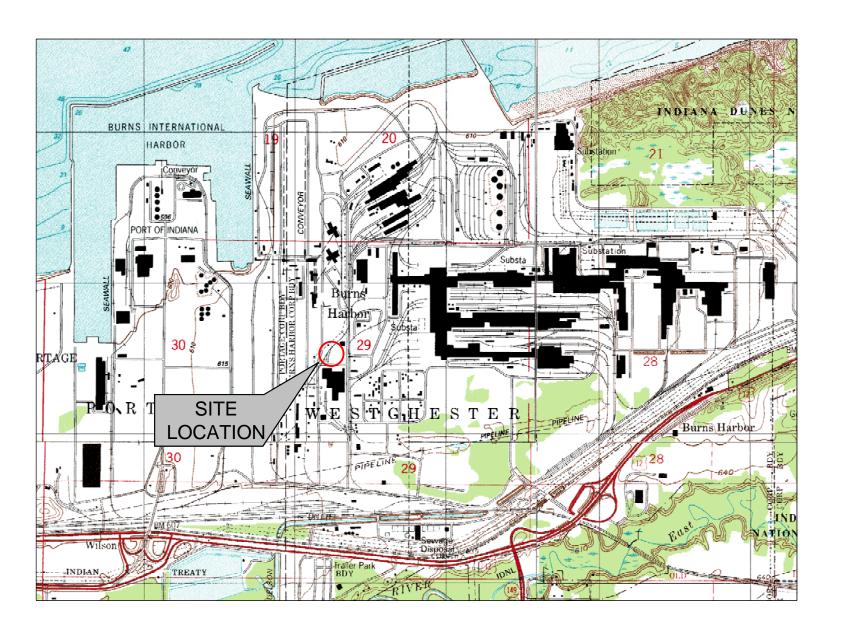




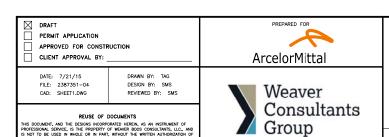
VICINITY MAP

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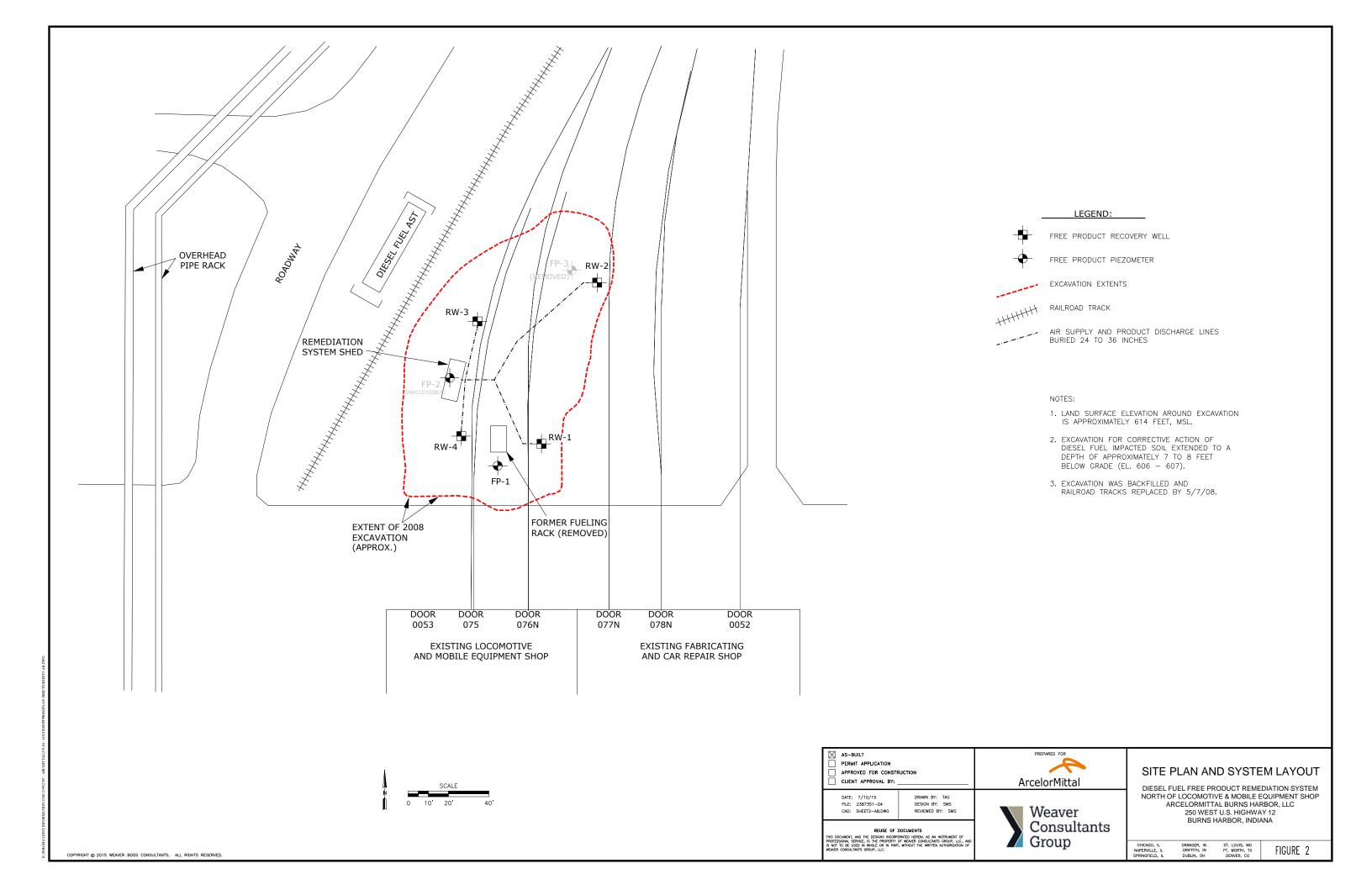
SITE LOCATION MAP

DIESEL FUEL FREE PRODUCT REMEDIATION SYSTEM NORTH OF LOCOMOTIVE & MOBILE EQUIPMENT SHOP ARCELORMITTAL BURNS HARBOR, LLC 250 WEST U.S. HIGHWAY 12 BURNS HARBOR, INDIANA

FIGURE 1

CHICAGO, IL GRIFFITH, IN ST. LOUIS, MO
NAPERVILLE, IL SOUTH BEND, IN FT. WORTH, TX
SPRINGER D. II. DIRIUM ON DENVER CO.

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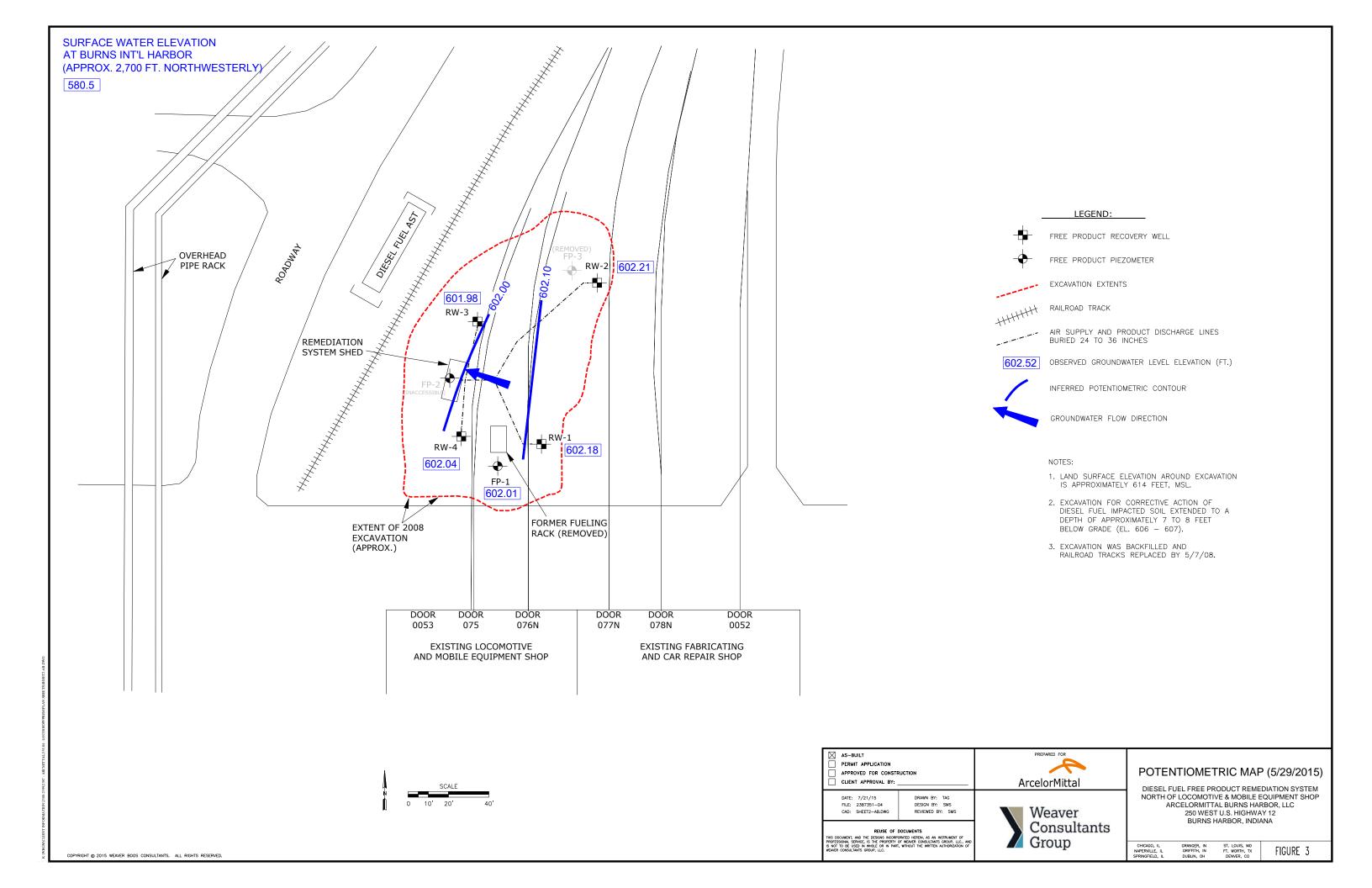


FIGURE 4
Cumulative Free Product Recovered
Locomotive and Mobile Equipment Shop

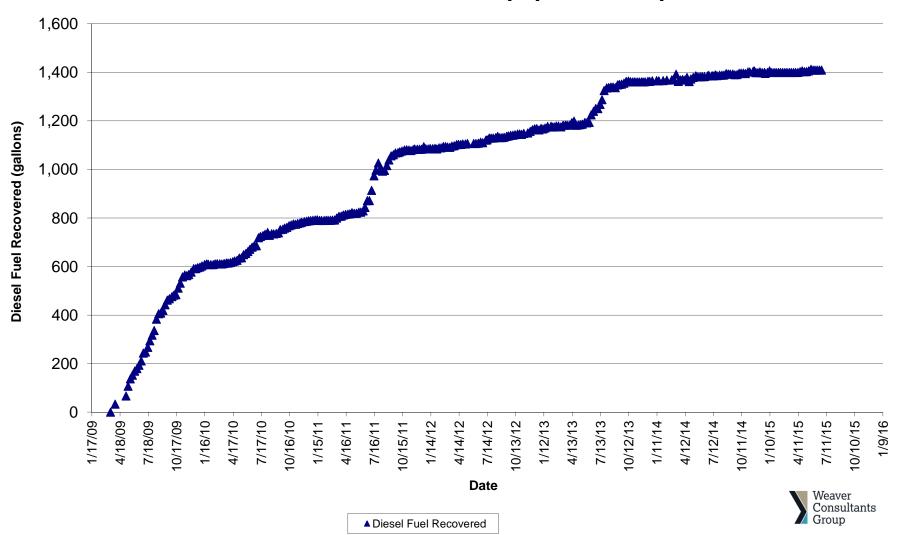
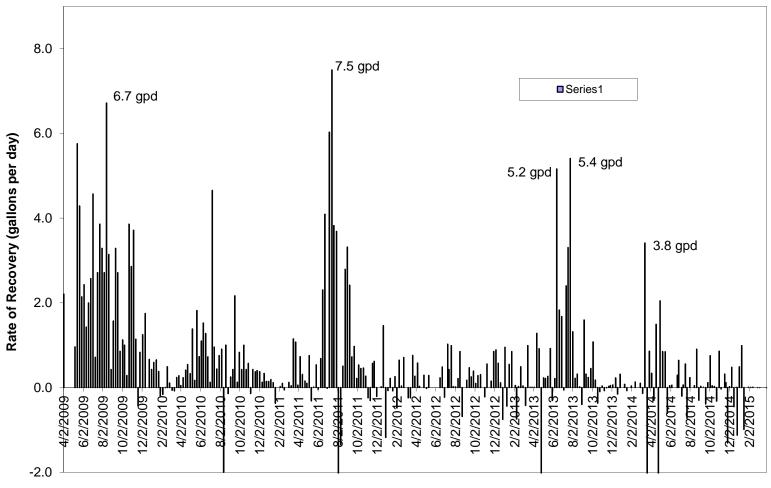
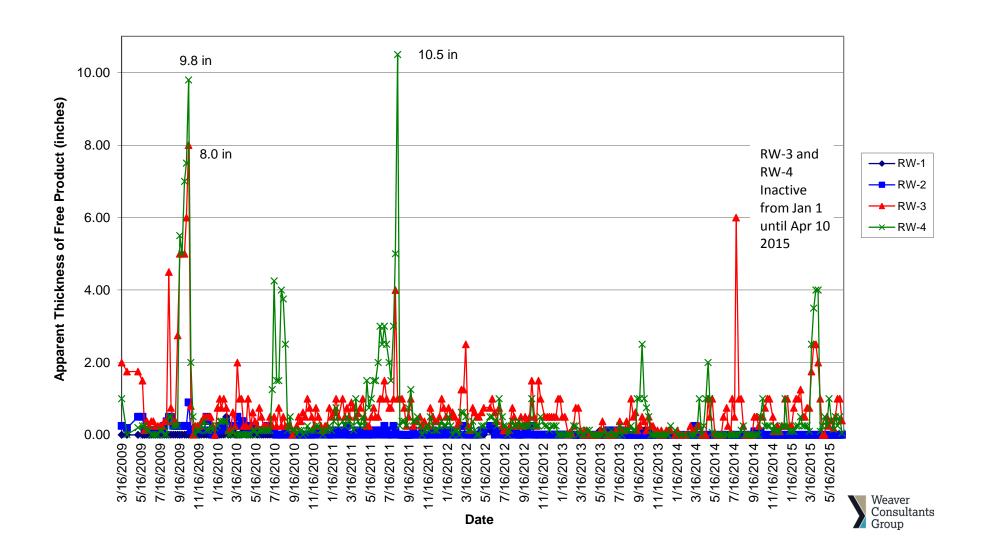


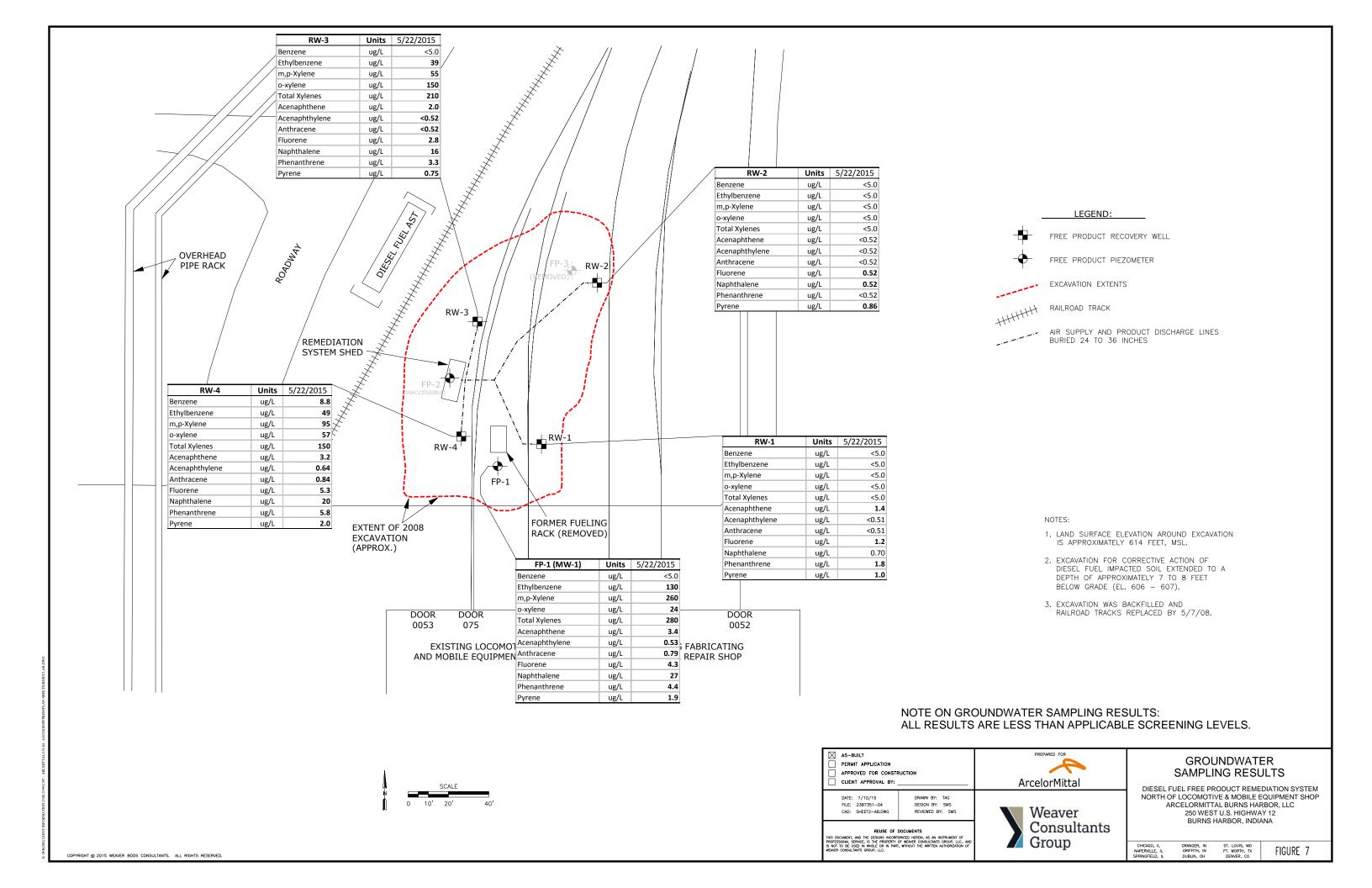
FIGURE 5
Rate of Diesel Fuel Recovery (gallons per day)
Locomotive and Mobile Equipment Shop



Weaver Consultants Group

FIGURE 6
Apparent Thickness of Free Product in Wells
Locomotive and Mobile Equipment Shop





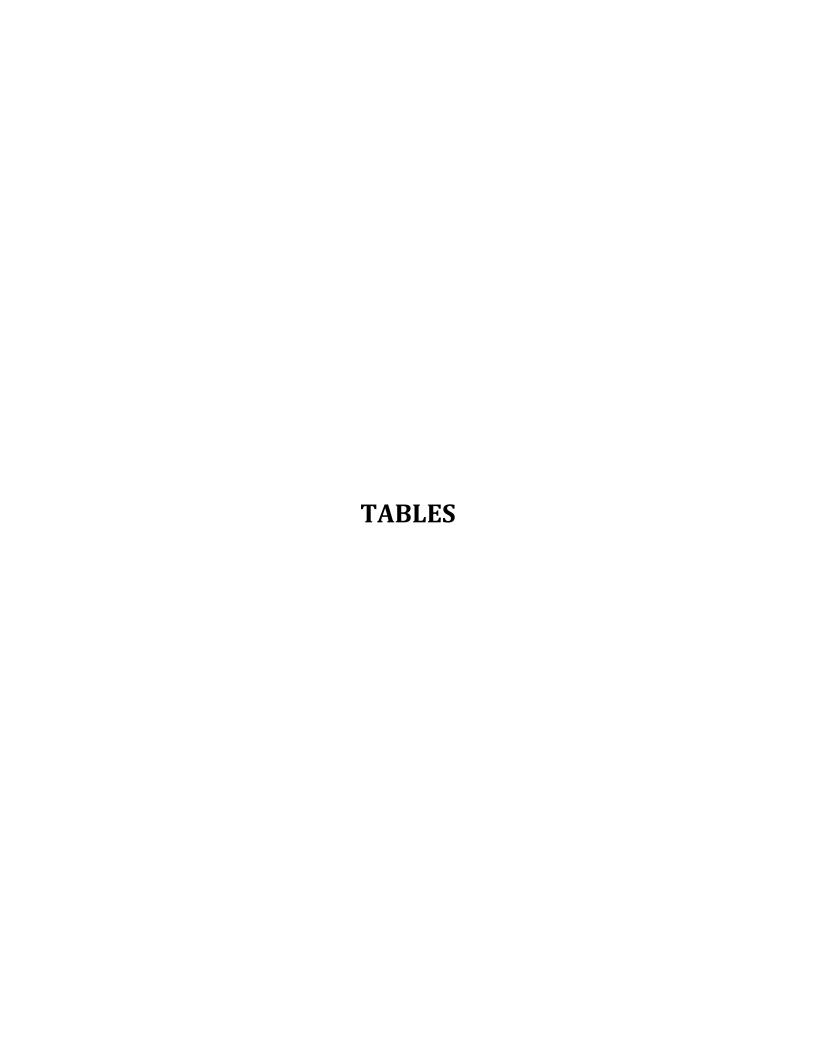


TABLE 1

Monitoring and Remediation Well Information
ArcelorMittal Burns Harbor, LLC
Burns Harbor, Indiana

Well I.D.	Date Drilled	Easting (ft, NAD83)	Northing (ft, NAD83)	Top of Pipe Elevation (ft, NAVD88)	Total Depth of Well (ft)	Length of Screen (ft)
FP-1	5/13/2008	484,015	1,504,225	612.84	20	10.0
FP-2	5/13/2008	483,992	1,504,268	1	20	10.0
FP-3	5/13/2008	484,052	1,504,322	2	20	10.0
RW-1	10/31/2008	484,037	1,504,236	613.47	20	10.0
RW-2	10/31/2008	484,075	1,504,307	613.43	20	10.0
RW-3	11/3/2008	484,006	1,504,297	613.38	20	10.0
RW-4	11/3/2008	483,999	1,504,236	613.63	20	10.0

- 1 Piezometer FP-2 is under the remediation system shed and inaccessible.
- 2 Piezometer FP-3 was destroyed during site restoration after excavation of diesel fuel-impacted soil.

TABLE 2 Water Level Elevations ArcelorMittal Burns Harbor, LLC

Burns Harbor, Indiana

Well I.D.	Top of Pipe Elevation (ft, NAVD88)	Date of Measurement	Depth to Water (ft)	Groundwater or Surface Water Elevation (ft, NAVD88)
FP-1 (MW-1)	612.84	5/29/2015	10.88	601.96
RW-1	613.47	5/29/2015	11.29	602.18
RW-2	613.43	5/29/2015	11.22	602.21
RW-3	613.38	5/29/2015	11.40	601.98
RW-4	613.63	5/29/2015	11.59	602.04
Lake MI		5/29/2015		580.50 ¹

^{1 -} Measured by fixed intrumentation at south end of east harbor arm on Lake Michigan.

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
3/18/2009	0	0	0	0
4/2/2009	9	9	33	33
5/7/2009	17	17	67	67
5/14/2009	15	15	107	107
5/21/2009	21	21	137	137
5/28/2009	19	19	152	152
6/4/2009	22	22	169	169
6/11/2009	25	25	179	179
6/18/2009	25	25	193	193
6/25/2009	21	21	211	211
7/2/2009	23	23	243	243
7/9/2009	25	25	248	248
7/16/2009	25	25	267	267
7/23/2009	26	26	294	294
7/30/2009	26	26	317	317
8/6/2009	26	26	336	336
8/13/2009	12	38	47	383
8/20/2009	12	38	69	405
8/27/2009	12	38	72	408
9/3/2009	12	38	83	419
9/10/2009	13	39	106	442
9/17/2009	13	39	125	461
9/24/2009	13	39	131	467
10/2/2009	14	40	140	476
10/8/2009	15	41	146	482
10/15/2009	15	41	148	484
10/22/2009	16	42	175	511
10/29/2009	16	42	195	531
11/5/2009	31	57	221	557
11/12/2009	47	73	229	565
11/19/2009	57	83	226	562
11/25/2009	62	88	231	567
12/3/2009	62	88	241	577
12/11/2009	62	88	255	591
12/18/2009	63	89	255	591
12/24/2009	64	90	259	595
12/31/2009	64	90	262	598
1/7/2010	62	88	266	602
1/15/2010	62	88	271	607
1/22/2010	59	85	274	610
1/27/2010	62	88	273	609
2/4/2010	63	89	272	608
2/12/2010	63	89	272	608
2/18/2010	62	88	275	611
2/25/2010	64	90	276	612
3/5/2010	66	92	275	611
3/12/2010	67	93	274	610
3/19/2010	67	93	276	612

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
3/26/2010	68	94	278	614
4/1/2010	69	95	278	614
4/8/2010	70	96	280	616
4/16/2010	70	96	283	619
4/22/2010	70	96	287	623
4/30/2010	70	96	289	625
5/7/2010	71	97	299	635
5/14/2010	73	99	300	636
5/21/2010	73	99	313	649
5/28/2010	75	101	318	654
6/4/2010	75	101	326	662
6/10/2010	75	101	335	671
6/17/2010	75	101	344	680
6/24/2010	3	104	5	685
7/1/2010	3	104	6	686
7/8/2010	6	107	38	718
7/14/2010	29	130	44	724
7/22/2010	42	143	47	727
7/22/2010	98	199	53	733
8/6/2010	151	252	60	740
8/12/2010	204	305	48	728
8/19/2010	245	346	55	735
8/26/2010	286	387	54	734
9/3/2010	313	414	56	736
9/10/2010	327	428	59	739
9/16/2010	7	435	13	752
9/24/2010	9	437	14	753
9/30/2010	13	441	19	758
10/7/2010	15	443	22	761
10/14/2010	18	446	29	768
10/21/2010	19	447	32	771
10/28/2010	21	449	36	775
11/4/2010	19	447	35	774
11/1/2010	19	447	38	777
11/19/2010	21	449	41	780
11/24/2010	22	450	43	782
12/2/2010	22	450	46	785
12/2/2010	22	450	47	786
12/16/2010	22	450	49	788
12/23/2010	22	450	50	789
12/23/2010	22	450	51	790
1/6/2011	22	450	52	791
1/13/2011	22	450	53	792
1/20/2011	23	450	51	792
1/27/2011	23	451	51	790
2/4/2011	24	451	51	790
2/11/2011	24	452	51	790
2/11/2011	25	453	51	790
2/17/2011	25	453	51	790
3/3/2011	26	454	52	790

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
3/10/2011	26	454	52	791
3/17/2011	21	449	60	799
3/24/2011	24	452	68	807
3/31/2011	33	461	68	807
4/7/2011	34	462	73	812
4/14/2011	35	463	75	814
4/22/2011	36	464	77	816
4/28/2011	42	470	77	816
5/5/2011	49	477	83	822
5/12/2011	59	487	80	819
5/19/2011	67	495	81	820
5/27/2011	73	501	85	824
6/2/2011	78	506	85	824
6/10/2011	84	512	90	829
6/16/2011	87	515	104	843
6/23/2011	95	523	133	872
6/30/2011	119	547	132	871
7/7/2011	132	560	175	914
7/15/2011	144	572	235	974
7/21/2011	6	578	23	997
7/29/2011	15	587	52	1,026
8/4/2011	64	636	28	1,002
8/11/2011	107	679	18	992
8/18/2011	119	691	22	996
8/25/2011	122	694	42	1,016
9/1/2011	122	694	65	1,039
9/8/2011	124	696	82	1,056
9/15/2011	124	696	87	1,061
9/22/2011	124	696	94	1,068
9/30/2011	124	696	95	1,069
10/6/2011	119	691	98	1,072
10/13/2011	119	691	102	1,076
10/21/2011	122	694	105	1,079
10/28/2011	124	696	107	1,081
11/4/2011	126	698	106	1,080
11/11/2011	128	700	103	1,077
11/18/2011	125	697	107	1,081
11/23/2011	122	694	110	1,084
12/1/2011	122	694	109	1,083
12/8/2011	122	694	109	1,083
12/15/2011	124	696	109	1,083
12/22/2011	112	684	119	1,093
12/29/2011	127	699	111	1,085
1/5/2012	129	701	110	1,084
1/12/2012	129	701	112	1,086
1/20/2012	132	704	111	1,085
1/27/2012	132	704	113	1,087
2/2/2012	135	707	110	1,084
2/9/2012	132	704	115	1,089
2/16/2012	133	705	115	1,089

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
2/23/2012	132	704	120	1,094
3/1/2012	132	704	120	1,094
3/8/2012	132	704	118	1,092
3/15/2012	132	704	116	1,090
3/22/2012	133	705	122	1,096
3/29/2012	135	707	124	1,098
4/6/2012	132	704	128	1,102
4/12/2012	132	704	128	1,102
4/19/2012	132	704	128	1,102
4/26/2012	135	707	131	1,105
5/4/2012	136	708	130	1,104
5/11/2012	136	708	132	1,106
5/31/2012	136	708	132	1,106
6/7/2012	136	708	132	1,106
6/15/2012	138	710	134	1,108
6/22/2012	138	710	138	1,112
6/29/2012	140	712	136	1,110
7/9/2012	140	712	146	1,120
7/13/2012	140	712	148	1,122
7/20/2012	141	713	155	1,129
7/26/2012	143	715	155	1,129
8/2/2012	144	716	155	1,129
8/10/2012	144	716	157	1,131
8/16/2012	144	716	162	1,136
8/23/2012	151	723	157	1,131
8/30/2012	151	723	157	1,131
9/6/2012	0	723	1	1,132
9/14/2012	1	724	5	1,136
9/20/2012	4	727	7	1,138
9/27/2012	5	728	9	1,140
10/4/2012	5	728	10	1,141
10/11/2012	5	728	12	1,143
10/19/2012	6	729	15	1,146
10/26/2012	6	729	15	1,146
11/1/2012	7	730	13	1,144
11/8/2012	7	730	17	1,148
11/21/2012	7	730	19	1,150
11/29/2012	47	770	26	1,157
12/6/2012	78	801	32	1,163
12/13/2012	89	812	36	1,167
12/20/2012	108	831	37	1,168
12/27/2012	119	842	32	1,163
1/3/2013	122	845	38	1,169
1/9/2013	135	858	36	1,167
1/16/2013	148	871	39	1,170
1/24/2013	151	874	46	1,177
2/4/2013	164	887	47	1,178
2/8/2013	177	900	44	1,175
2/14/2013	184	907	44	1,175
2/21/2013	184	907	47	1,178

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
2/28/2013	197	920	48	1,179
3/8/2013	201	924	44	1,175
3/15/2013	207	930	51	1,182
3/22/2013	214	937	51	1,182
3/28/2013	221	944	51	1,182
4/4/2013	224	947	51	1,182
4/12/2013	224	947	62	1,193
4/19/2013	252	975	68	1,199
4/26/2013	289	1,012	51	1,182
5/3/2013	301	1,024	52	1,183
5/9/2013	301	1,024	54	1,185
5/16/2013	7	1,031	1	1,186
5/24/2013	12	1,036	9	1,194
5/30/2013	21	1,045	7	1,192
6/7/2013	28	1,052	9	1,194
6/13/2013	38	1,062	40	1,225
6/21/2013	62	1,086	54	1,239
6/28/2013	87	1,111	66	1,251
7/5/2013	122	1,146	66	1,251
7/12/2013	132	1,156	82	1,267
7/18/2013	146	1,170	102	1,287
7/25/2013	149	1,173	140	1,325
8/2/2013	156	1,180	151	1,336
8/9/2013	163	1,187	152	1,337
8/16/2013	167	1,191	154	1,339
8/23/2013	174	1,198	154	1,339
8/30/2013	187	1,211	152	1,337
9/6/2013	184	1,208	163	1,348
9/12/2013	1	1,209	2	1,350
9/19/2013	3	1,211	3	1,351
9/27/2013	5	1,213	7	1,355
10/4/2013	6	1,214	15	1,363
10/11/2013	7	1,215	16	1,364
10/18/2013	7	1,215	13	1,361
10/25/2013	8	1,216	13	1,361
11/1/2013	9	1,217	13	1,361
11/8/2013	10	1,218	12	1,360
11/15/2013	10	1,218	12	1,360
11/22/2013	11	1,219	12	1,360
11/27/2013	12	1,220	13	1,361
12/4/2013	12	1,220	13	1,361
12/13/2013	10	1,218	15	1,363
12/19/2013	10	1,218	14	1,362
12/27/2013	12	1,220	17	1,365
1/10/2014	12	1,220	18	1,366
1/17/2014	12	1,220	17	1,365
1/31/2014	12	1,220	18	1,366
2/12/2014	13	1,221	19	1,367
2/28/2014	15	1,223	21	1,369
3/7/2014	18	1,226	20	1,368

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
3/14/2014	29	1,237	44	1,392
3/21/2014	75	1,283	14	1,362
3/28/2014	78	1,286	20	1,368
4/4/2014	135	1,343	23	1,371
4/11/2014	207	1,415	20	1,368
4/18/2014	245	1,453	31	1,379
4/25/2014	259	1,467	14	1,362
4/30/2014	269	1,477	24	1,372
5/8/2014	269	1,477	31	1,379
5/16/2014	272	1,480	38	1,386
5/23/2014	320	1,528	33	1,381
5/30/2014	385	1,593	34	1,382
6/6/2014	5	1,598	0	1,382
6/13/2014	10	1,603	0	1,382
6/23/2014	7	1,600	3	1,385
6/27/2014	5	1,598	5	1,387
7/7/2014	13	1,606	3	1,385
7/11/2014	17	1,610	4	1,386
7/18/2014	17	1,610	8	1,390
7/23/2014	23	1,616	4	1,386
8/1/2014	23	1,616	6	1,388
8/8/2014	23	1,616	6	1,388
8/15/2014	26	1,619	6	1,388
8/22/2014	49	1,642	13	1,395
8/29/2014	59	1,652	11	1,393
9/4/2014	64	1,657	11	1,393
9/12/2014	67	1,660	11	1,393
9/19/2014	70	1,663	8	1,390
9/26/2014	78	1,671	9	1,391
10/3/2014	78	1,671	14	1,396
10/9/2014	84	1,677	15	1,397
10/16/2014	89	1,682	15	1,397
10/23/2014	119	1,712	12	1,394
10/31/2014	138	1,731	19	1,401
11/6/2014	132	1,725	19	1,401
11/17/2014	138	1,731	23	1,405
11/21/2014	157	1,750	23	1,405
11/26/2014	167	1,760	17	1,399
12/2/2014	177	1,770	17	1,399
12/9/2014	180	1,773	20	1,402
12/16/2014	194	1,787	17	1,399
12/23/2014 12/26/2014	201	1,794 1,800	17 14	1,399 1,396

Date	Water in Recovery Tank (gallons)	Cumulative Total Ancillary Groundwater Removed from the Subsurface (gallons)	Diesel Fuel Product in Recovery Tank (gallons)	Cumulative Total Diesel Fuel Product Removed from the Subsurface (gallons)
1/2/2015	211	1,804	17	1,399
1/9/2015	228	1,821	24	1,406
1/16/2015	211	1,804	17	1,399
1/23/2015	228	1,821	17	1,399
1/30/2015	221	1,814	17	1,399
2/6/2015	231	1,824	17	1,399
2/13/2015	235	1,828	17	1,399
2/20/2015	238	1,831	17	1,399
2/27/2015	245	1,838	17	1,399
3/6/2015	248	1,841	17	1,399
3/13/2015	252	1,845	17	1,399
3/20/2015	255	1,848	17	1,399
3/27/2015	259	1,852	17	1,399
4/3/2015	259	1,852	17	1,399
4/10/2015	262	1,855	17	1,399
4/17/2015	265	1,858	21	1,403
4/24/2015	265	1,858	24	1,406
5/1/2015	272	1,865	21	1,403
5/8/2015	276	1,869	21	1,403
5/15/2015	279	1,872	24	1,406
5/22/2015	276	1,869	31	1,413
5/29/2015	293	1,886	27	1,409
6/4/2015	293	1,886	27	1,409
6/11/2015	296	1,889	27	1,409
6/18/2015	300	1,893	27	1,409
6/25/2015	300	1,893	27	1,409
	GRA	ND TOTAL		1,409

Note 1: The volume of water and diesel fuel contained in the tanks is based on dipstick measurements to the nearest 0.25 inch. The quantity of water is estimated using water-finding paste applied to the lowe portion of the dipstick. Dipstick measurements are converted to gallons using a tank chart

Note 2: *Tank emptied on August 6, 2009, June 17, 2010, September 10, 2010, July 15, 2011 August 30, 2012, May 9, 2013, September 6, 2013, and May 31, 201

Table 4
Apparent Thickness of Free Product in Wells
Locomotive and Mobile Equipment Repair Shop
ArcelorMittal Burns Harbor, LLC
Burns Harbor, Indiana

Date	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)				
	RW-1	RW-2	RW-3	RW-4	
3/16/2009	0.00	0.25	2.00	1.00	
4/2/2009	0.00	0.19	1.75	0.01	
5/7/2009	0.00	0.50	1.75	0.20	
5/21/2009	0.00	0.50	1.50	0.25	
5/28/2009	0.00	0.13	0.13	0.25	
6/4/2009	0.005	0.13	0.38	0.13	
6/11/2009	Not Measured	0.13	0.25	0.13	
6/18/2009	0.005	0.13	0.38	0.005	
6/25/2009	0.005	0.13	0.38	0.005	
7/2/2009	0.005	0.13	0.25	0.005	
7/9/2009	0.005	0.13	0.25	0.005	
7/16/2009	0.005	0.13	0.25	0.13	
7/23/2009	0.005	0.13	0.25	0.13	
7/30/2009	0.005	0.25	0.375	0.005	
8/6/2009	0.005	0.375	0.375	0.005	
8/13/2009	0.005	0.5	4.5	0.5	
8/20/2009	0.005	0.5	0.75	0.5	
8/27/2009	0.005	0.25	0.375	0.25	
9/3/2009	0.005	0.25	0.375	0.25	
9/10/2009	0.005	0.25	2.75	0.25	
9/17/2009	0.005	0.25	5.0	5.5	
9/24/2009	0.005	0.25	5.0	5.0	
10/2/2009	0.005	0.25	5.0	7.0	
	+	0.25	 		
10/8/2009	0.005		6.0	7.5	
10/15/2009	0.005 0.005	0.9	8.0 0.8	9.8	
10/22/2009			0.005	0.5	
10/29/2009	0.19	0.125	0.005		
11/5/2009	0.005	0.125		0.005	
11/12/2009	0.005	0.125	0.25	0.125	
11/19/2009	0.005	0.125	0.25	0.125	
11/25/2009	0.005	0.125	0.375	0.25	
12/3/2009	0.005	0.125	0.5	0.375	
12/11/2009	0.005	0.5	0.5	0.125	
12/18/2009	0.005	0.38	0.5	0.125	
12/24/2009	0.005	0.125	0.5	0.25	
12/31/2009	0.005	0.005	0.25	0.125	
1/7/2010	0.005			0.188	
1/15/2010	0.005	0.125	0.75	0.25	
1/22/2010	0.005	0.25	1.0	0.375	
1/27/2010	0.005	0.125	0.75	0.375	
2/4/2010	0.005	0.25	1.0	0.375	
2/12/2010	0.50	0.375	0.75	0.375	
2/18/2010	0.005	0.125	0.125	0.005	
2/25/2010	0.005	0.125	0.125	0.005	
3/5/2010	0.125	0.25	0.625	0.125	
3/12/2010	0.005	0.25	0.25	0.005	
3/19/2010	0.005	0.5	2.0	0.005	
3/26/2010	0.005	0.25	1.0	0.005	

Table 4
Apparent Thickness of Free Product in Wells
Locomotive and Mobile Equipment Repair Shop
ArcelorMittal Burns Harbor, LLC
Burns Harbor, Indiana

Date	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)				
	RW-1	RW-2	RW-3	RW-4	
4/1/2010	0.005	0.38	1.0	0.005	
4/8/2010	0.125	0.375	0.25	0.005	
4/16/2010	0.005	0.125	0.25	0.005	
4/22/2010	0.005	0.25	1.0	0.0125	
4/30/2010	0.005	0.13	0.25	0.005	
5/7/2010	0.005	0.25	0.625	0.125	
5/14/2010	0.125	0.25	0.375	0.125	
5/21/2010	0.005	0.13	0.25	0.005	
5/28/2010	0.005	0.125	0.75	0.125	
6/4/2010	0.005	0.125	0.50	0.125	
6/10/2010	0.005	0.125	0.25	0.125	
6/17/2010	0.005	0.125	0.25	0.125	
6/24/2010	0.005	0.25	0.25	0.125	
7/1/2010	0.005	0.125	0.50	0.125	
7/8/2010	0.005	0.125	0.25	1.25	
7/14/2010	0.005	0.125	0.50	4.25	
7/22/2010	0.005	0.005	0.25	1.50	
7/29/2010	0.005	0.005	0.75	1.50	
8/6/2010	0.005	0.005	0.25	4.00	
8/12/2010	0.005	0.005	0.50	3.75	
8/19/2010	0.005	0.125	0.25	2.50	
8/26/2010	0.005	0.005	0.25	0.13	
9/3/2010	0.005	0.005	0.25	0.50	
9/10/2010	0.005	0.005	0.005	0.13	
9/16/2010	0.005	0.005	0.13	0.13	
9/24/2010	0.005	0.005	0.25	0.005	
9/30/2010	0.005	0.005	0.50	0.125	
10/7/2010	0.005	0.005	0.375	0.125	
10/14/2010	0.005	0.005	0.625	0.005	
10/21/2010	0.005	0.005	0.500	0.063	
10/28/2010	0.005	0.005	1.0	0.25	
11/4/2010	0.005	0.005	0.75	0.125	
11/11/2010	0.005	0.005	0.50	0.125	
11/19/2010	0.005	0.005	0.25	0.125	
11/24/2010	0.005	0.125	0.75	0.25	
12/2/2010	0.005	0.125	0.5	0.25	
12/10/2010	0.005	0.005	0.25	0.125	
12/16/2010	0.005	0.125	0.125	0.005	
12/23/2010	0.005	0.125	0.25	0.125	
12/30/2010	0.005	0.005	0.25	0.125	
1/6/2011	0.005	0.005	0.75	0.25	
1/13/2011	0.005	0.005	0.5	0.125	
1/20/2011	0.005	0.125	0.625	0.375	
1/27/2011	0.005	0.125	1.0	0.75	
2/4/2011	0.005	0.005	0.5	0.25	
2/17/2011	0.005	0.125	1.0	0.375	
2/24/2011	0.125	0.005	0.5	0.25	
3/3/2011	0.005	0.25	0.75	0.5	
3/10/2011	0.005	0.005	0.5	0.4	
3/17/2011	0.01	0.005	0.9	0.25	

Table 4 Apparent Thickness of Free Product in Wells Locomotive and Mobile Equipment Repair Shop ArcelorMittal Burns Harbor, LLC Burns Harbor, Indiana

Date	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)				
	RW-1	RW-2	RW-3	RW-4	
3/24/2011	0.005	0.005	0.75	0.125	
3/31/2011	0.125	0.005	0.5	1.0	
4/7/2011	0.005	0.125	0.6	0.375	
4/14/2011	0.005	0.005	0.75	0.25	
4/22/2011	0.005	0.005	1.0	0.5	
4/28/2011	0.005	0.125	0.5	0.25	
5/5/2011	0.005	0.005	0.25	1.5	
5/12/2011	0.005	0.005	0.25	0.75	
5/19/2011	0.005	0.125	0.5	1.0	
5/27/2011	0.005	0.005	0.75	1.5	
6/2/2011	0.005	0.125	0.5	1.5	
6/10/2011	0.005	0.125	0.5	2.0	
6/16/2011	0.005	0.125	1.0	3.0	
6/23/2011	0.005	0.005	1.0	2.5	
6/30/2011	0.005	0.25	1.5	3.0	
7/7/2011	0.005	0.125	1.0	2.5	
7/15/2011	0.005	0.005	0.75	2.0	
7/21/2011	0.005	0.005	0.75	1.5	
7/29/2011	0.005	0.25	1.0	3.0	
8/4/2011	0.005	0.125	4.0	5.0	
8/11/2011	0.005	0.005	1.0	10.5	
8/18/2011	0.005	0.005	1.0	0.25	
8/25/2011	0.005	Not Measured	1.0	0.375	
9/1/2011	0.005	Not Measured	0.75	0.375	
9/8/2011	0.005	Not Measured	0.25	0.25	
9/15/2011	0.005	Not Measured	0.5	0.75	
9/22/2011	0.005	Not Measured	1.0	1.25	
9/30/2011	0.005	0.125	0.25	0.375	
10/6/2011	0.005	0.005	0.375	0.375	
10/13/2011	0.005	0.005	0.375	0.50	
10/21/2011	0.005	0.005	0.50	0.25	
10/28/2011	0.005	0.125	0.25	0.005	
11/4/2011	0.005	0.005	0.375	0.125	
11/11/2011	0.005	0.005	0.250	0.250	
11/18/2011	0.005	0.005	0.250	0.125	
11/23/2011	0.005	0.005	0.75	0.50	
12/1/2011	0.005	0.125	0.50	0.25	
12/8/2011	0.005	0.005	0.375	0.125	
12/15/2011	0.005	0.005	0.375	0.125	
12/22/2011	0.005	0.005	0.5	0.25	
12/29/2011	0.005	0.125	1.0	0.375	
1/5/2012	0.005	0.005	0.75	0.25	
1/12/2012	0.005	0.125	0.50	0.25	
1/20/2012	0.005	0.125	0.75	0.50	
1/27/2012	0.005	0.005	0.50	0.25	
2/2/2012	0.005	0.125	0.625	0.005	
2/9/2012	0.005	0.005	0.50	0.125	
2/16/2012	0.005	0.005	0.25	0.125	
2/23/2012	0.005	0.005	0.375	0.005	
3/1/2012	0.005	0.25	1.25	0.625	

Table 4 Apparent Thickness of Free Product in Wells Locomotive and Mobile Equipment Repair Shop ArcelorMittal Burns Harbor, LLC Burns Harbor, Indiana

Date	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)				
	RW-1	RW-2	RW-3	RW-4	
3/8/2012	0.005	0.25	1.25	0.625	
3/15/2012	0.005	0.005	2.5	0.5	
3/22/2012	0.005	0.005	0.25	0.125	
3/29/2012	0.005	0.005	0.13	0.125	
4/6/2012	0.005	0.005	0.750	0.375	
4/12/2012	0.005	0.005	0.625	0.125	
4/19/2012	0.005	0.005	0.50	0.005	
4/26/2012	0.005	0.005	0.50	0.005	
5/4/2012	0.005	0.125	0.625	0.25	
5/11/2012	0.005	0.125	0.750	0.25	
5/31/2012	0.125	0.25	0.75	0.50	
6/7/2012	0.125	0.25	1.00	0.50	
6/15/2012	0.005	0.005	0.625	0.375	
6/22/2012	0.005	0.125	0.375	0.25	
6/29/2012	0.005	0.125	0.75	1.0	
7/9/2012	0.005	0.005	0.25	0.5	
7/13/2012	0.005	0.005	0.125	0.25	
7/20/2012	0.005	0.005	0.125	0.25	
7/26/2012	0.005	0.005	0.125	0.005	
8/2/2012	0.005	0.005	0.25	0.125	
8/10/2012	0.005	0.005	0.75	0.375	
8/16/2012	0.005	0.125	0.50	0.25	
8/23/2012	0.005	0.060	0.25	0.25	
8/30/2012	0.005	N/A	0.25	0.375	
9/6/2012	0.005	0.005	0.50	0.25	
9/14/2012	0.005	0.005	0.25	0.25	
9/20/2012	0.005	0.125	0.50	0.25	
9/27/2012	0.005	0.125	0.375	0.25	
10/4/2012	0.005	0.005	0.50	0.25	
10/11/2012	0.005	0.25	1.50	1.00	
10/19/2012	0.005	0.005	0.50	0.25	
10/26/2012	0.005	0.005	0.25	0.25	
11/1/2012	0.005	0.005	1.50	0.25	
11/8/2012	0.005	0.005	1.00	0.50	
11/21/2012	0.005	0.005	0.50	0.25	
11/29/2012	0.005	0.005	0.50	0.25	
12/6/2012	0.005	0.005	0.50	0.13	
12/13/2012	0.005	0.005	0.50	0.25	
12/20/2012	0.005	0.005	0.50	0.25	
12/27/2012	0.005	0.005	0.50	0.25	
1/3/2013	0.005	0.005	1.00	0.005	
1/9/2013	0.005	0.005	1.00	0.005	
1/16/2013	0.005	0.005	0.5	0.005	
1/24/2013	0.005	0.005	0.5	0.005	
2/4/2013	0.005	0.005	0.005	0.005	
2/8/2013	0.005	0.005	0.06	0.005	
2/14/2013	0.005	0.005	0.06	0.005	
2/21/2013	0.00	0.00	0.25	0.25	
2/28/2013	0.00	0.00	0.75	0.25	
3/8/2013	0.00	0.00	0.75	0.00	

Table 4 Apparent Thickness of Free Product in Wells Locomotive and Mobile Equipment Repair Shop ArcelorMittal Burns Harbor, LLC Burns Harbor, Indiana

Date	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)				
	RW-1	RW-2	RW-3	RW-4	
3/15/2013	0.00	0.00	0.13	0.13	
3/22/2013	0.00	0.00	0.00	0.00	
3/28/2013	0.00	0.00	0.13	0.00	
4/4/2013	0.00	0.00	0.13	0.13	
4/12/2013	0.00	0.00	0.00	0.13	
4/19/2013	0.00	0.00	0.00	0.00	
4/26/2013	0.00	0.00	0.00	0.00	
5/3/2013	0.00	0.00	0.00	0.00	
5/9/2013	0.06	0.00	0.00	0.00	
5/16/2013	0.13	Sheen	0.125	Sheen	
5/24/2013	Sheen	Sheen	0.375	Sheen	
5/30/2013	Sheen	Sheen	0.125	0.125	
6/7/2013	Sheen	0.125	Sheen	Sheen	
6/13/2013	0.13	0.125	Sheen	Sheen	
6/21/2013	0.00	Sheen	Sheen	0.125	
6/28/2013	Sheen	Sheen	0.00	Sheen	
7/5/2013	Sheen	0.125	0.125	0.00	
7/11/2013	Sheen	Sheen	0.125	Sheen	
7/18/2013	Sheen	0.125	0.375	0.25	
7/25/2013	Sheen	0.125	0.125	Sheen	
8/2/2013	Sheen	Sheen	0.125	0.125	
8/9/2013	Sheen	Sheen	0.375	0.125	
8/16/2013	Sheen	Sheen	0.250	0.125	
8/23/2013	Sheen	Sheen	1.0	0.25	
8/30/2013	Sheen	Sheen	0.5	0.125	
9/6/2013	Sheen	Sheen	0.625	0.125	
9/12/2013	Sheen	Sheen	0.125	1.0	
9/19/2013	Sheen	Sheen	0.25	1.0	
9/27/2013	0.125	Sheen	0.5	2.5	
10/4/2013	0.125	Sheen	0.375	1.0	
10/11/2013	Sheen	Sheen	0.125	0.75	
10/18/2013	0.125	Sheen	0.50	0.50	
10/25/2013	Sheen	Sheen	0.25	Sheen	
11/1/2013	Sheen	Sheen	0.25	Sheen	
11/8/2013	Sheen	Sheen	0.125	Sheen	
11/15/2013	Sheen	Sheen	0.125	Sheen	
11/22/2013	Sheen	Sheen	Sheen	Sheen	
11/27/2013	Sheen	Sheen	0.125	Sheen	
12/4/2013	Sheen	Sheen	Sheen	Sheen	
12/13/2013	Sheen	Sheen	0.125	Sheen	
12/19/2013	Sheen	Sheen	0.125	Sheen	
12/27/2013	Sheen	Sheen	0.125	0.25	
1/10/2014	Sheen	Sheen	Sheen	0.125	
1/17/2014	Sheen	Sheen	0.125	Sheen	
1/31/2014	Sheen	Sheen	Sheen	Sheen	
2/12/2014	Unable to Check	Unable to Check	Unable to Check	Unable to Check	
2/28/2014	Sheen	Sheen	0.25	Sheen	
3/7/2014	Sheen	Sheen	0.125	Sheen	
3/14/2014	Sheen	0.25	0.125	Sheen	
3/21/2014	Sheen	Sheen	0.25	0.125	

Table 4 Apparent Thickness of Free Product in Wells Locomotive and Mobile Equipment Repair Shop ArcelorMittal Burns Harbor, LLC Burns Harbor, Indiana

Date	Apparen	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)							
	RW-1	RW-2	RW-3	RW-4					
3/28/2014	Sheen	Sheen	0.25	1.0					
4/4/2014	Sheen	Sheen	Sheen	Sheen					
4/11/2014	Sheen	Sheen	Sheen	0.25					
4/18/2014	Sheen	Sheen	Sheen	1.0					
4/25/2014	Sheen	Sheen	1.0	2.0					
4/30/2014	Sheen	Sheen	0.5	1.0					
5/8/2014	Sheen	Sheen	1.0	0.07					
5/16/2014	Sheen	Sheen	0.06	Sheen					
5/23/2014	Sheen	Sheen	Sheen	Sheen					
5/30/2014	Sheen	Sheen	Sheen	Sheen					
6/6/2014	Sheen	Sheen	Sheen	Sheen					
6/13/2014	Sheen	Sheen	0.5	Sheen					
6/23/2014	Sheen	Sheen	0.75	Sheen					
6/27/2014	Sheen	Sheen	0.25	Sheen					
7/7/2014	Sheen	Sheen	0.063	Sheen					
7/11/2014	Sheen	Sheen	1.0	Sheen					
7/18/2014	Sheen	Sheen	0.5	Sheen					
7/23/2014	0.0	0.0	6.0	0.0					
8/1/2014	0.0	0.0	1.0	0.0					
8/8/2014	0.0	0.0	1.0	0.13					
8/15/2014	Sheen	Sheen	0.25	0.25					
8/22/2014	Sheen	Sheen	Sheen	Sheen					
8/29/2014	0.0	0.0	0.0	0.0					
9/4/2014	0.0	0.0	0.0	0.0					
9/12/2014	0.0	0.0	0.0	0.0					
9/19/2014	0.1	0.1	0.5	0.0					
9/26/2014	0.0	0.0	0.5	0.0					
10/3/2014	0.0	0.0	0.25	0.0					
10/9/2014	0.0	0.1	0.5	0.5					
10/16/2014	0.0	0.0	0.5	1.0					
10/23/2014	0.0	0.0	0.75	0.25					
10/31/2014	0.0	0.0	1.0	0.25					
11/6/2014	0.0	0.0	1.0	0.25					
11/17/2014	0.0	0.0	0.5	0.1					
11/21/2014	0.0	0.0	0.1	0.25					
11/26/2014	0.0	0.0	0.1	0.1					
12/2/2014	0.0	0.0	0.25	0.1					
12/9/2014	0.0	0.0	0.1	0.1					
12/16/2014	0.0	0.0	0.25	0.25					
12/23/2014	0.0	0.0	0.25	0.25					
12/26/2014	0.0	0.0	1.0	1.0					

Table 4
Apparent Thickness of Free Product in Wells
Locomotive and Mobile Equipment Repair Shop
ArcelorMittal Burns Harbor, LLC
Burns Harbor, Indiana

Date	Apparent Thickness of Free Product Observed in Recovery Wells (Inches)						
	RW-1	RW-2	RW-3	RW-4			
1/2/2015	0.0	0.0	1.00	0.25			
1/9/2015	0.0	0.0	0.25	0.1			
1/16/2015	0.0	0.0	0.25	0.1			
1/23/2015	0.0	0.0	0.75	0.1			
1/30/2015	0.0	0.0	1.0	0.25			
2/6/2015	0.0	0.0	1.0	0.25			
2/13/2015	0.0	0.0	1.25	0.5			
2/20/2015	0.0	0.0	0.5	0.25			
2/27/2015	0.0	0.0	0.5	0.25			
3/6/2015	0.0	0.0	0.75	0.25			
3/13/2015	0.0	0.0	0.75	0.1			
3/20/2015	0.0	0.0	1.75	2.50			
3/27/2015	0.0	0.0	2.50	3.50			
4/3/2015	0.0	0.0	2.50	4.00			
4/10/2015	0.0	0.0	2.00	4.00			
4/17/2015	0.0	0.0	1.00	0.10			
4/24/2015	0.0	0.0	0.00	0.25			
5/1/2015	0.0	0.0	0.00	0.50			
5/8/2015	0.0	0.0	0.50	0.25			
5/15/2015	0.0	0.0	0.25	1.00			
5/22/2015	0.0	0.0	0.40	0.40			
5/29/2015	0.0	0.0	0.19	0.15			
6/4/2015	0.0	0.0	0.50	0.50			
6/11/2015	0.0	0.0	1.00	0.25			
6/18/2015	0.0	0.0	1.00	0.50			
6/25/2015	0.0	0.0	0.40	0.05			

Notes: Free product checked by lowering a bottom-filling bailer into the water table surface, retrieving it, and measuring with a tape measure. In 1Q2013 and earlier, "0.005 inches" indicates that only a sheen was present.

TABLE 5

Groundwater Analytical Data ArcelorMittal Burns Harbor, LLC Burns Harbor, Indiana

				Well I.D.:	FP-1 (MW-1)	RW-1	RW-2	RW-3	RW-4
Parameters	Units	Ground Screening	dwater Objectives	Lab I.D.:	15E1058- 01	15E1058- 02	15E1058- 03	15E1058- 04	15E1058- 05
		RISC Industrial ¹	RCG Industrial Vapor Intrusion ²	Sampling Date:	5/22/2015	5/22/2015	5/22/2015	5/22/2015	5/22/2015
BTEX									
Benzene	ug/L	52	120		<5.0	<5.0	<5.0	<5.0	8.8
Ethylbenzene	ug/L	10000			130	<5.0	<5.0	39	49
m,p-Xylene	ug/L				260	<5.0	<5.0	55	95
o-Xylene	ug/L				24	<5.0	<5.0	150	57
Total Xylenes	ug/L	20000			280	<5.0	<5.0	210	150
Toluene	ug/L	8200			<5.0	<5.0	<5.0	<5.0	<5.0
PAHs			T	T			T		
Acenaphthene	ug/L	6,100			3.4	1.4	<0.52	2.0	3.2
Acenaphthylene	ug/L	730			0.53	<0.51	<0.52	<0.52	0.64
Anthracene	ug/L	31,000			0.79	<0.51	<0.52	<0.52	0.84
Benzo[a]anthracene	ug/L	3.9			<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]pyrene	ug/L	0.39			<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[b]fluoranthene	ug/L	3.9			<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[g,h,i]perylene	ug/L				<0.21	<0.20	<0.21	<0.21	<0.21
Benzo[k]fluoranthene	ug/L	39			<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	ug/L	390			<0.52	<0.51	<0.52	<0.52	<0.52
Dibenz[a,h]anthracene	ug/L	0.39			<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	ug/L	4,100			<0.52	<0.51	<0.52	<0.52	<0.52
Fluorene	ug/L	4,100			4.3	1.2	0.52	2.8	5.3
Indeno[1,2,3cd]pyrene	ug/L	3.9			0.031	<0.020	<0.021	<0.021	<0.021
Naphthalene	ug/L	2,000	460		27	0.70	0.52	16	20
Phenanthrene	ug/L	310			4.4	1.8	<0.52	3.3	5.8
Pyrene	ug/L	3,100			1.9	1.0	0.86	0.75	2.0

Notes:

--- - No screening level for this compound.

4.3 Bold: Compound detected above reporting limit.

53 Result is Greater than a relevant screening level for the property (none exceed screening level).

- 1 IDEM's Risk Integrated System of Closure (Revised May 1, 2009).
- 2 IDEM's Remediation Closure Guide (Revised 2014).

APPENDIX A

Monitoring and Remediation Well and Boring Logs

4085 Meg
South Ber
(574) 271
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WATER LEVEL DATA

11.5 While Drilling (feet)

11.5 At Completion (feet)

-- hours after drilling (feet)

4085 Meghan Beel CT South Bend, IN 46628 (574) 271-3447 Tel (574) 271-3343 Fax

Soil Boring/Well No.: RW-1

File No.: 2387351-04

Client: ArcelorMittal Burns Harbor, LLC

Time Started: 1300 Date Completed: 10/31/2008

Time Completed: 1500
Driller: Pete Dela Cruze (DLZ)
Location: North of Locomotive
Shop, Burns Harbor, IN

Date Completed: 10/31/2008
Well is completed: 10/31/2008

Well is completed at the surface with a 24 x 24 x 24 inch H-20 load rated street box set in concrete

Grd El.: 614	ft, Easting: 484,037 ft, Northing: 1,504,236 ft	S	SAMPLE DA	ГА	box set in concrete.
010 2111 011	Latering. 10 1,007 14, 110 things 1,00 1,200 11	PID	RECOVERY	MOISTURE	
DEPTH (ft)	SOIL DESCRIPTION	(ppm)	(%)	CONTENT	
1.0	ASPHALT CONCRETE Black dense SAND, some silt and gravel Tan medium SAND	(ppiii)	(%)	Damp	PVC Cap Concrete Seal 4-in PVC Casing
7.0 8.0 9.0 10.0 11.0 12.0 13.0	Gray fine to medium SAND, petroleum odor	6.25-incl stem aug sampling Complet	ed as 4-in ID 40 PVC el free	Moist Wet	Global #7 Sand Filter Pack #10 Slot Well Screen
14.0 15.0 16.0 17.0 18.0 19.0 20.0	Boring and Well Terminated at 20 ft bgs			Wet	4-in PVC Casing Bottom Plug
	ration from facility design. Easting and Northing		G 17	2 1	

NOTES: Elevation from facility design. Easting and Northing SPC NAD27, from Google Earth, likely +/- 10 ft.

Logged by: S. Keown, Geologist Reviewed: S.M. Stanford, LPG #IN968

WEAVER BOOS CONSULTANTS WATER LEVEL DATA 11.5 While Drilling (feet) 11.5 At Completion (feet) -- __ hours after drilling (feet)

4085 Meghan Beel CT South Bend, IN 46628 (574) 271-3447 Tel (574) 271-3343 Fax

Soil Boring/Well No.: **RW-2**

File No.: 2387351-04

Client: ArcelorMittal Burns Harbor, LLC

Time Started: 0830 Date Completed: 10/31/2008 Time Completed: 1200 Driller: Pete Dela Cruze (DLZ) Location: North of Locomotive Shop, Burns Harbor, IN

Well is completed at the surface with a 24 x 24 x 24 inch H-20 load rated street

Grd El · 614	ft, Easting: 484,075 ft, Northing: 1,504,307 ft		SAMPLE DA	ГΛ	box set in co	norata
Old El., 014	tt, Easting. 464,073 ft, Northing. 1,304,307 ft	PID	RECOVERY	MOISTURE	box set iii co	nerete.
DEPTH (ft)	SOIL DESCRIPTION	(ppm)	(%)	CONTENT		
(-,)	Black medium GRAVEL	(11)	(,			
1.0		1			PVC Cap	_
_	Black dense SAND, some silt and gravel					
2.0				Damp		
_					Concrete	
3.0	Tan medium SAND				Seal→	
4.0					4-in PVC	
4.0					Casing	-
5.0					Cusing	
6.0				Damp		
_						
7.0						
-						
8.0			rilled using		Global #7	
9.0			h ID hollow-	Damp	Sand Filter	
7.0		_	ers. Auger	Damp	Pack	
10.0		sampling			1 4011	
			ed as 4-in ID 40 PVC		#10 Slot	
11.0	Gray fine to medium SAND,	diesel fu		Moist	Well Screen -	→ 📗
_	petroleum odor	product				
12.0		well.	iccovery	Wet		
12.0						
13.0						
14.0				Wet		
11.0				******		
15.0						
_						
16.0						
17.0					4-in PVC	
18.0				Wet	Casing —	
16.0				WEL		
19.0					Bottom	
					Plug	
20.0	Boring and Well Terminated at 20 ft bgs					A
NOTES: Flex	vation from facility design Easting and Northing	Logged by:	S Keown (Geologist		

NOTES: Elevation from facility design. Easting and Northing SPC NAD27, from Google Earth, likely +/- 10 ft.

Logged by: S. Keown, Geologist

S.M. Stanford, LPG #IN968 Reviewed:

4085 Meghan Beel CT RW-3 WEAVER Soil Boring/Well No.: BOOS South Bend, IN 46628 CONSULTANTS File No.: 2387351-04 (574) 271-3447 Tel (574) 271-3343 Fax Client: ArcelorMittal Burns Harbor, LLC Date Completed: 11/03/2008 WATER LEVEL DATA Time Started: 1230 11.5 While Drilling (feet) 1400 Time Completed: Driller: Pete Dela Cruze (DLZ) 11.5 At Completion (feet) Well is completed at the -- __ hours after drilling (feet) Location: North of Locomotive Shop, Burns Harbor, IN surface with a 24 x 24 x 24 inch H-20 load rated street Grd El.: 614 ft, Easting: 484,006 ft, Northing: 1,504,297 ft SAMPLE DATA box set in concrete. PID RECOVERY MOISTURE DEPTH (ft) CONTENT SOIL DESCRIPTION (ppm) (%) ASPHALT CONCRETE 1.0 PVC Cap **Gray CRUSHED STONE** 2.0 Damp Concrete Tan medium SAND 3.0 Seal
→ 4.0 4-in PVC Casing -5.0 6.0 Damp 7.0 8.0 Boring drilled using Global #7 6.25-inch ID hollow-9.0 Damp Sand Filter stem augers. Auger Pack sampling only. 10.0 Completed as 4-in ID #10 Slot schedule 40 PVC 11.0 Well Screen Gray fine to medium SAND, Moist diesel fuel free petroleum odor product recovery 12.0 Wet well. 13.0 14.0 Wet 15.0 16.0 4-in PVC 17.0 Casing -

NOTES: Elevation from facility design. Easting and Northing SPC NAD27, from Google Earth, likely +/- 10 ft.

Boring and Well Terminated at 20 ft bgs

18.0

19.0

20.0

Logged by: S. Keown, Geologist Reviewed: S.M. Stanford, LPG #IN968

Wet

Bottom Plug ~ WEAVER
BOOS
CONSULTANTS
LLC
GEO-ENVIRONMENTAL ENGINEERS

WATER LEVEL DATA

11.5 While Drilling (feet)

11.5 At Completion (feet)

-- hours after drilling (feet)

BOOS
CONSULTANTS
COUNTY 271-3447 Tel
COUNTY 271-3343 Fax

Time Started:

Time Completed:
Driller:
Location:

Grd El.: 614 ft, Easting: 483,999 ft, Northing: 1,504,236 ft

DEPTH (ft)

SOIL DESCRIPTION

ASPHALT CONCRETE

1.0 Gray CRUSHED STONE

2.0 Gray CRUSHED STONE

3.0 Tan medium SAND

4.0 —
5.0 —
5.0 —
5.0 —
5.0 —
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5.0 —
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5.0 —
5.0 —
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85 Meghan Beel CT
uth Bend, IN 46628
74) 271-3447 Tel

Soil Boring/Well No.: RW-4
File No.: 2387351-04

Client: ArcelorMittal Burns Harbor, LLC

: 0800 Date Completed: 11/03/2008

Pete Dela Cruze (DLZ)
North of Locomotive
Shop, Burns Harbor, IN

Well is completed at the surface with a 24 x 24 x 24 inch H-20 load rated street box set in concrete

Grd El.: 614	ft, Easting: 483,999 ft, Northing: 1,504,236 ft		SAMPLE DA	ГΑ	box set in co	oncrete.
DEPTH (ft)	SOIL DESCRIPTION	PID (ppm)	RECOVERY (%)	MOISTURE CONTENT		
1.0	ASPHALT CONCRETE Gray CRUSHED STONE	41			PVC Cap	→
2.0				Damp	Concrete	
3.0 4.0	Tan medium SAND				Seal → 4-in PVC	
5.0					Casing —	>
6.0 7.0				Damp		
8.0			rilled using		GL L 1 "5	
9.0			h ID hollow- gers. Auger	Damp	Global #7 Sand Filter Pack	
10.0 11.0	Gray fine to medium SAND,	Complet schedule	ed as 4-in ID 40 PVC	Moist	#10 Slot Well Screen	—
12.0	petroleum odor	diesel fu product well.		Wet		
13.0						
14.0 - 15.0				Wet		
16.0						
17.0					4-in PVC Casing	_
18.0 - 19.0				Wet	Bottom	
20.0 NOTES: Elev	Boring and Well Terminated at 20 ft bgs ation from facility design. Easting and Northing	Logged by	S Keown (Geologist	Plug	_

NOTES: Elevation from facility design. Easting and Northing SPC NAD27, from Google Earth, likely +/- 10 ft.

Logged by: S. Keown, Geologist Reviewed: S.M. Stanford, LPG #IN968

Site Name	ArcelorMi	ttal	County	Porter		Well Numb	er F	P-1	
Site Location	Burns Har	bor, Indiana	Northing		Easting		_		•
Drilling Contractor	DLZ		_		Date Drilling Started	5/13/2008			_
Head Driller	Pete		Helper	Jim	Date Completed	5/13/2008			_
Drilling Method	4.25-inch		_		Drilling Fluids 'Type'				_
Water Level at Complete		8.83	_		Date & Time	5/13, 1120			_
Water Level after 24 ho	urs		_		Date & Time				-
Annular Space D	etails						Elevation	Ft.	
Type of Surface Seal:		Flush mour	nt						
Type of Annular Sealant	:	Bentonite C	Chips						
Amount of Cement:	# of bags	1	lbs. per bag	g					
Amount of Volclay:	# of bags		lbs. per bag	g					
Type of Bentonite Seal (Granular, P	ellet):	Pellets				_	0	Ground Surface
Amount of Bentonite:	# of bags	1.25	lbs. per bag	g 50					•
Type of Sand Pack	# 5 quartz	5					0.00	0	Top of Procover
Source of Sand	Bagged				_				
Amount of Sand:	# of bags	6	lbs. per bag	g50			0.00	0.5	T C.D.'
Piezometer Const	truction 1	Materials					0.00	0.5	Top of Riser
								1	Top of Annular
	PVC	Stainless Steel	Teflon						Sealant
Riser Coupling Joint	2"	Steel		=		22		4	Bottom of Seal
Riser Pipe Above W.T.	2"								Top of Sand
Riser Pipe Below W.T.	2"								F
Screen	2"							5	Top of Screen
Protective Casing									
	-1	1	•						
Riser Pipe Length		10 feet		٦					
Protective Casing Length	h	Flust Manh	nle	1					
Screen Length		10 feet	.010	1				15	Bottom of Screen
Screen Slot Size		0.01 inch		1				1.0	_ Dolloin of Beleef
Diameter of borehole - i	nches	8 inches		╡					
ID of Riser Pipe - inches		2 inches							
					in the latest the second secon				

Notes:

Completed by Jodi Slough Surveyed by File Number 2387-351-04

Weaver Boos Consultants, LLC

20 Well Bottom

20 Bottom of Borehole

4085 Meghan Beeler Court South Bend, Indiana 46628 (574) 271-3447

MONITORING WELL COMPLETION REPORT

Site Name	ArcelorMit	tal	County	Porter		Well Number	FP-2	
Site Location	Burns Harb	or, Indiana			Easting	-		•
Drilling Contractor	DLZ		_	-	Date Drilling Started	5/13/2008		
Head Driller	Pete		Helper	Jim	Date Completed	5/13/2008		•
Drilling Method	4.25-inch I	D HSA	<u>-</u>		Drilling Fluids 'Type'			<u>.</u>
Water Level at Completic	on	10.33	<u>-</u>		Date & Time	5/13, 1300		_
Water Level after 24 hou	rs		_		Date & Time			=
Annular Space De	etails					Elevation	Ft.	
Type of Surface Seal:		Flush moun	ıt					
Type of Annular Sealant:		Bentonite C	Chips					
	# of bags	1	lbs. per bag	g				
Amount of Volclay:	# of bags		lbs. per bag					
Type of Bentonite Seal (C	Granular, Pe	llet):	Pellets		_		0	Ground Surface
Amount of Bentonite:	# of bags	1.25	lbs. per bag	g 50				•
Type of Sand Pack	# 5 quartz		- ^ `			0.00	0	Top of Procover
Source of Sand	Bagged				_			
	# of bags	6	lbs. per bag	g 50	_			
Piezometer Consti	PVC	Aterials Stainless Steel	Teflon				1	Top of Annular Sealant
Riser Coupling Joint	2"					<u></u> _		Bottom of Seal
Riser Pipe Above W.T.	2"					<u></u> .	4	Top of Sand
Riser Pipe Below W.T.	2"							
Screen	2"					<u></u>	5	Top of Screen
Protective Casing								
				_				
Riser Pipe Length		10 feet						
Protective Casing Length		Flush Manh	ole					
Screen Length		10 feet				<u></u>	15	Bottom of Screen
Screen Slot Size		0.01 inch						
Diameter of borehole - in	ches	8 inches						
ID of Riser Pipe - inches		2 inches						
Notes:								Well Bottom Bottom of

Completed by Jodi Slough Surveyed by File Number 2387-351-04

Weaver Boos Consultants, LLC

Borehole

4085 Meghan Beeler Court South Bend, Indiana 46628 (574) 271-3447

MONITORING WELL COMPLETION REPORT

Site Name	ArcelorMi	ttal	County	Porter		Well Numb	er F	P-3	
Site Location		or, Indiana	Northing	-	Easting		_		_
Drilling Contractor	DLZ		_		Date Drilling Started	5/13/2008			_
Head Driller	Pete		Helper	Jim	Date Completed	5/13/2008			_ _
Drilling Method	4.25-inch l		_		Drilling Fluids 'Type'				<u> </u>
Water Level at Complet		9.51	_		Date & Time	5/13, 1430			_
Water Level after 24 ho	ırs		_		Date & Time	-			-
Annular Space D	etails						Elevation	Ft.	
Type of Surface Seal:		Flush mour	nt						
Type of Annular Sealant	:	Bentonite C	Chips						
Amount of Cement:	# of bags	1	_lbs. per ba	g	<u></u>				
Amount of Volclay:	# of bags		lbs. per ba	g					
Type of Bentonite Seal (Granular, Po	ellet):	Pellets			1,,,,,		0	_Ground Surface
Amount of Bentonite:	# of bags		_lbs. per ba	g50					
Type of Sand Pack	# 5 quartz						0.00	0	_Top of Procover
Source of Sand	Bagged				_				
Amount of Sand:	# of bags	6	_lbs. per ba	g 50	_				
Piezometer Const	mustion I	Matariala					0.00	0.5	Top of Riser
r lezonieter Consi	i uction 1	viateriais						1	Top of Annular
	PVC	Stainless	Teflon						Sealant
		Steel							
Riser Coupling Joint	2"							4	Bottom of Seal
Riser Pipe Above W.T.	2"							4	Top of Sand
Riser Pipe Below W.T.	2"								-
Screen	2"							5	Top of Screen
Protective Casing									
Riser Pipe Length		10 feet							
Protective Casing Lengt	<u> </u>	Flush Manl	hole	-					
Screen Length	11	10 feet	ioic	-				15	Bottom of Screen
Canada Clas Cias		0.01 :1-		\dashv	lisis i - l i			13	_ DOMOIN OF BUILDIN

Screen Slot Size
Diameter of borehole - inches 0.01 inch 8 inches ID of Riser Pipe - inches 2 inches

Notes:

Completed by Jodi Slough Surveyed by File Number 2387-351-04

Weaver Boos Consultants, LLC

20 Well Bottom 20 Bottom of Borehole

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APPENDIX B

Weekly Operating Records



Locomotive Shop Diesel Fuel Remediation System

Date:6/25/2015Time:12:55Observations by:Alex HuangWeather Conditions:Mostly cloudy, 75° FWeaver Consultants Group, LLC	
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full Tank N :Low Vac. N :Low Press. N :Fire Suppression Blower Operating Normally? (Y/N): Y Blower Vacuum on Arrival (in H ₂ O): 16 Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Y Compressor Auto Drain OK? (Y/N): N Pump Pressure (psi): 85	gh
Shed Exhaust Fan Working Normally? (Y/N): Set Point for Operation (°F): Set Point for Operation (°F): Set Point for Operation (°F): Min Water in Vacuum Lines? No significant amount of water was drained from SVE lines. Compressor Oil Level OK? Yes	<u>-</u>
OIL RECOVERY MEASUREMENTS	
Read from Tank Chart Total Fluid Level in Tank (in): 29.00 Water Level in Tank (in): 27.00 Water Level in Tank (in): 27.00 Oil Volume in Tank (total fluid volume less water volume (gal): 27.04	_ _ _ _
Pumping time (Read from Controller): RW-1 615 :hr 13 :min RW-3 543 :hr 12 :min RW-2 502 :hr 50 :min RW-4 554 :hr 47 :min	
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free Product in RW-3 (in): 0.40 Free Product in RW-2 (in): 0.00 Free Product in RW-4 (in): 0.05	
Remarks: 0.4 gallons of condensate was drained from the compressor. RW-4 indicated a visible apparent oi/water emulsion just below a sheen of phase-separated diesel fuel.	
bolow a sheeth of phase-separated dieserraer.	

Contact: S. Stanford, Weaver Consultants Group, LLC

7121 Grape Road Granger, Indiana 46530 (574) 271-3447 Tel. (574) 271-3343 Fax. sstanford@wcgrp.com



Locomotive Shop Diesel Fuel Remediation System

Date: 6/18/2015 Time: 14:45 Observati Weather Conditions: Mostly cloudy, 83° F	ons by: Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full Tank N :Low Vac. Blower Operating Normally? (Y/N): Y	Y:Low Press. N:Fire Suppression uum on Departure (in H ₂ O): 15 eplaced? Observed cycle pressures (psi): 0:Low 175:High Set Point for Operation (°F): 92
Shed Heater Operating Normally? (Y/N): Y	Set Point for Operation (°F): 92 Set Point for Operation (°F): Min
Water in Vacuum Lines? Approx. 0.25 gallons of water drained Compressor Oil Level OK? Yes	· · · · · · · · · · · · · · · · · · ·
OIL RECOVERY MEASUREMENTS	
	Read from Tank Chart Total Fluid Volume in Tank (gal): Water Volume in tank (gal): 299.54 Tal fluid volume less water volume (gal): 27.04
Pumping time (Read from Controller): RW-1 610 :hr 33 :min RW-2 500 :hr 30 :min	RW-3 538 thr 32 tmin RW-4 550 thr 7 tmin
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free	Product in RW-3 (in): 1.00 Product in RW-4 (in): 0.50
Remarks: The air compressor was initially off, with downstearm pressure gauge with a control panel reset of the system. An insignificant amount of wirregularities were noted in the remediation system during this event.	vater was drained from the compressor afterward. No other

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Locomotive Shop Diesel Fuel Remediation System

Date: 6/11/2015 Time: 13:00 Weather Conditions: Mostly cloudy, 79° F	Observations by:	Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS		
Panel Warning Lights Illuminated? (Y/N): Blower Operating Normally? (Y/N): Blower Vacuum on Arrival (in H ₂ O): Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Compressor Auto Drain OK? (Y/N): Pump Pressure (psi):		Observed cycle pressures (psi)::Low:High
Shed Exhaust Fan Working Normally? (Y/N): Y Shed Heater Operating Normally? (Y/N): Y Water in Vacuum Lines? No significate Compressor Oil Level OK? Yes	ant water drained from SVE lines.	Set Point for Operation (°F): 92 Set Point for Operation (°F): Min
OIL RECOVERY MEASUREMENTS		
Total Fluid Level in Tank (in): 28.75 Water Level in Tank (in): 26.75	Oil Volume in Tank (total fluid	Total Fluid Volume in Tank (gal): Water Volume in tank (gal): volume less water volume (gal): 27.08
Pumping time (Read from Controller): RW-1 605 :hr RW-2 498 :hr	53 :min 10 :min	RW-3 533 :hr 52 :min RW-4 545 :hr 27 :min
FREE PRODUCT MEASUREMENTS		
Free Product in RW-1 (in): 0.00 Free Product in RW-2 (in): 0.00	Free Product	t in RW-3 (in): 1.00 t in RW-4 (in): 0.25
Demorks Approximately 0.25 college desired form	All conditions to the	
Remarks: Approximately 0.35 gallons drained from the	ne compressor. All conditions typic	cai, equipment operating normally.
-		

Contact: S. Stanford, Weaver Consultants Group, LLC

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Locomotive Shop Diesel Fuel Remediation System

Date: 6/4/2015 Time: 12:30 Weather Conditions: Mostly cloudy, 78° F	Observations by:	Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS		
Panel Warning Lights Illuminated? (Y/N): Blower Operating Normally? (Y/N): Blower Vacuum on Arrival (in H ₂ O): Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Compressor Auto Drain OK? (Y/N): Pump Pressure (psi): Shed Exhaust Fan Working Normally? (Y/N):		:Low Press. N :Fire Suppression Departure (in H ₂ O): 15 Observed cycle pressures (psi): :Low 180 :High Set Point for Operation (°F): 92
Shed Heater Operating Normally? (Y/N): Y Water in Vacuum Lines? No significate Compressor Oil Level OK? Yes	ant water drained from SVE lines.	Set Point for Operation (°F): Min
OIL RECOVERY MEASUREMENTS		
Total Fluid Level in Tank (in): 28.50 Water Level in Tank (in): 26.50	Oil Volume in Tank (total fluid	Read from Tank Chart Total Fluid Volume in Tank (gal): Water Volume in tank (gal): volume less water volume (gal): 27.13
Pumping time (Read from Controller): RW-1 601 :hr RW-2 495 :hr	13 :min 50 :min	RW-3 529 :hr 12 :min RW-4 540 :hr 47 :min
FREE PRODUCT MEASUREMENTS		
Free Product in RW-1 (in): 6.00 6.00 7.00 7.00	Free Product	t in RW-3 (in): 0.50 t in RW-4 (in): 0.50
Demontor Associated to Complete the Complete to Complete the Complete to Complete the Complete to Complete the Complete th	All and Provide the Control of the C	
Remarks: Approximately 0.2 gallon was drained from	the compressor. All conditions ty	pical and equipment operating normally.

Contact: S. Stanford, Weaver Consultants Group, LLC

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Locomotive Shop Diesel Fuel Remediation System

Date: 5/29/2015 Time: 12:00 Weather Conditions: Cloudy and windy, 80° F	Observations by:	Steven Stanford Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS		
Panel Warning Lights Illuminated? (Y/N): Blower Operating Normally? (Y/N): Blower Vacuum on Arrival (in H ₂ O): Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Compressor Auto Drain OK? (Y/N): Pump Pressure (psi): 85		:Low Press. N :Fire Suppression Departure (in H ₂ O): 15 Observed cycle pressures (psi): 175 :Low 125 :High
Shed Exhaust Fan Working Normally? (Y/N): Shed Heater Operating Normally? (Y/N): Water in Vacuum Lines? No significant water Compressor Oil Level OK?	r drained from SVE lines.	Set Point for Operation (°F): 90 Set Point for Operation (°F): Min
OIL RECOVERY MEASUREMENTS		
Total Fluid Level in Tank (in): 28.50 Water Level in Tank (in): 26.50 Oil Vol Pumping time (Read from Controller): RW-1 597 :hr RW-2 493 :hr	lume in Tank (total fluid 13 :min 50 :min	Read from Tank Chart
FREE PRODUCT MEASUREMENTS Free Product in RW-1 (in): 0.00 Free Product in RW-2 (in): 0.00	Free Product	t in RW-3 (in): 0.19 t in RW-4 (in): 0.15
Remarks: Approximately 0.5 gallons was drained from the cointerface probe in lieu of a bailer. Depth to water/de RW-3 = 11.40/11.21; RW-4 = 11.59/11.44; Monitor	epth to oil (ft) are as follow	

Contact: S. Stanford, Weaver Consultants Group, LLC

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Locomotive Shop Diesel Fuel Remediation System

Date: 5/22/2015 Time: 8:17 A Weather Conditions: Sunny, 60° F, light win		Steven Stanford Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS		
Panel Warning Lights Illuminated? (Y/N): Blower Operating Normally? (Y/N): Blower Vacuum on Arrival (in H ₂ O): Blower Filter OK? (Y/N): Air Compressor Operating Normally? (Y/N): Compressor Auto Drain OK? (Y/N): N		:Low Press. N :Fire Suppression Departure (in H ₂ O): 15 Observed cycle pressures (psi): :Low :High
Pump Pressure (psi): 82 Shed Exhaust Fan Working Normally? (Y/N): Y Shed Heater Operating Normally? (Y/N): Y Water in Vacuum Lines? No significate Compressor Oil Level OK? No, added (Set Point for Operation (°F): 92 Set Point for Operation (°F): Min window.
OIL RECOVERY MEASUREMENTS		
Total Fluid Level in Tank (in): 27.50 Water Level in Tank (in): 25.25	Oil Volume in Tank (total fluid	Read from Tank Chart Total Fluid Volume in Tank (gal): 306.34 Water Volume in tank (gal): 275.64 volume less water volume (gal): 30.70
Pumping time (Read from Controller): RW-1 592 :hr RW-2 491 :hr	23 :min 25 :min	RW-3 520 :hr 22 :min RW-4 531 :hr 57 :min
FREE PRODUCT MEASUREMENTS		
Free Product in RW-1 (in): O.00 Free Product in RW-2 (in): 0.00	Free Product	t in RW-3 (in): 0.40 t in RW-4 (in): 0.40
Remarks: 0.063 ft of free product observed in monito	<u> </u>	· · · · · · · · · · · · · · · · · · ·
compressed air dryer is consuming less air	r than it did originally and may nee	d replacement.

Contact: S. Stanford, Weaver Consultants Group, LLC 7121 Grape Road

(574) 271-3447 Tel. (574) 271-3343 Fax.



Locomotive Shop Diesel Fuel Remediation System

	rime: 10:45 AM ly cloudy, 66° F.	Observations by:	Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS			
Panel Warning Lights Illuminated? Blower Operating Normally? Blower Vacuum on Arrival (in Blower Filter OK? Air Compressor Operating Normally?	(Y/N): Y H₂O): 16 (Y/N): Y		
Compressor Operating Normally? Compressor Auto Drain OK? Pump Pressure Shed Exhaust Fan Working Normally?	(Y/N): N (psi): 89		Observed cycle pressures (psi)::Low:High Set Point for Operation (°F): 90
	(Y/N): Y ines? Approximately 0.1	gallons collected	Set Point for Operation (°F): Min + 2
OIL RECOVERY MEASUREMENTS			Read from Tank Chart
Total Fluid Level in Tank (in): Water Level in Tank (in):	27.25 25.50 Oil Vo	olume in Tank (total fluid	Total Fluid Volume in Tank (gal): 302.94 Water Volume in tank (gal): 279.07 volume less water volume (gal): 23.87
Pumping time (Read from Controller): RV	V-1 587 :hr 489 :hr	44 :min 5 :min	RW-3 515 :hr 42 :min RW-4 527 :hr 17 :min
FREE PRODUCT MEASUREMENTS			
Free Product in RW-1 (in): Free Product in RW-2 (in):		Free Product	t in RW-3 (in): 0.25 t in RW-4 (in): 1.00
	•	ressor. The apparent oil/wassent at the top of the fluid of	ater emulsion in RW-3 remained in evidence, column.

Contact: S. Stanford, Weaver Consultants Group, LLC

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Locomotive Shop Diesel Fuel Remediation System

Date: 5/8/2015 Time: 12:20 PM Observations by: Alex Huang Weather Conditions: Partly sunny, 76° F. Weaver Consultants Group, LLC	
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full Tank N :Low Vac. N :Low Press. N :Fire Suppression Blower Operating Normally? (Y/N): Y Blower Vacuum on Arrival (in H ₂ O): 15 Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Y Compressor Auto Drain OK? (Y/N): N	
Pump Pressure (psi): 87 Shed Exhaust Fan Working Normally? (Y/N): Y Set Point for Operation (°F): 90 Shed Heater Operating Normally? (Y/N): Y Set Point for Operation (°F): Min + 2 Water in Vacuum Lines? Insignificant condensate collected from lines.	
OIL RECOVERY MEASUREMENTS Read from Tank Chart Total Fluid Level in Tank (in): 26.75 Water Level in Tank (in): 25.25 Oil Volume in Tank (total fluid volume less water volume (gal): 20.50	
Pumping time (Read from Controller): RW-1 583 :hr 13 :min RW-3 511 :hr 12 :min RW-2 486 :hr 50 :min RW-4 522 :hr 47 :min	
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free Product in RW-3 (in): 0.50 Free Product in RW-2 (in): 0.00 Free Product in RW-4 (in): 0.25	
Remarks: Approximately 0.2 gallon drained from the compressor. The apparent oil/water emulsion in RW-3 remained in evidence, but a phase-separated layer of diesel fuel was present at the top of the fluid column.	_

Contact: S. Stanford, Weaver Consultants Group, LLC

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Locomotive Shop Diesel Fuel Remediation System

Date: 5/1/2015 Time: 1:27 F Weather Conditions: Clear, 63° F.	PM Observations by: Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full To Blower Operating Normally? (Y/N): Y Blower Vacuum on Arrival (in H ₂ O): 16 Blower Filter OK? (Y/N): N Y Y Y Y Y Y Y Y Y	Tank N:Low Vac. N:Low Press. N:Fire Suppression Blower Vacuum on Departure (in H ₂ O): 15 If no, was it replaced? Yes Observed cycle pressures (psi): 130:Low 180:High Set Point for Operation (°F): 90
Shed Heater Operating Normally? (Y/N): Y	Set Point for Operation (°F): Min + 2
Water in Vacuum Lines? Approximat	tely 0.5 gallons purged from knockout tank.
OIL RECOVERY MEASUREMENTS	
Total Fluid Level in Tank (in): 26.50 Water Level in Tank (in): 25.00	Total Fluid Volume in Tank (gal): 292.73 Water Volume in tank (gal): 272.22 Oil Volume in Tank (total fluid volume less water volume (gal): 20.51
Pumping time (Read from Controller): RW-1 <u>578</u> :hr	<u>33</u> :min RW-3 <u>506</u> :hr <u>32</u> :min
RW-2 484 :hr	30 :min RW-4 518 :hr 7 :min
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free Product in RW-2 (in): 0.00	Free Product in RW-3 (in): 0 - see notes Free Product in RW-4 (in): 0.50
Remarks: Vacuum blower's filter changed and approx	ximately 0.15 gallon drained from the compressor. The apparent oil/water emulsion
remained visible at the top of the fluid colu	ımn in RW-3.

Contact: S. Stanford, Weaver Consultants Group, LLC

7121 Grape Road

Granger, Indiana 46530

(574) 271-3447 Tel. (574) 271-3343 Fax. sstanford@wcgrp.com



Locomotive Shop Diesel Fuel Remediation System

Date: 4/24/2015 Time: 1:30 PM Weather Conditions: Partly sunny, 58° F.	Observations by:	Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS		
Panel Warning Lights Illuminated? (Y/N): N :Full Tank	N :Low Vac. N	:Low Press. N :Fire Suppression
Blower Operating Normally? (Y/N): Y		
Blower Vacuum on Arrival (in H ₂ O): 15		Departure (in H ₂ O):
Blower Filter OK? (Y/N): Y	If no, was it replaced?	
Air Compressor Operating Normally? (Y/N): Y		Observed cycle pressures (psi)::Low:High
Compressor Auto Drain OK? (Y/N): N		
Pump Pressure (psi): 90		
Shed Exhaust Fan Working Normally? (Y/N): Y		Set Point for Operation (°F): 90
Shed Heater Operating Normally? (Y/N): Y		Set Point for Operation (°F): Min + 2
Water in Vacuum Lines? Approximately 0.5 g	allons purged from knock	out tank.
		_
OIL RECOVERY MEASUREMENTS		
		Read from Tank Chart
Total Fluid Level in Tank (in): 26.25		Total Fluid Volume in Tank (gal): 289.32
Water Level in Tank (in): 24.50		Water Volume in tank (gal): 265.36
Oil Vol	ume in Tank (total fluid	volume less water volume (gal): 23.96
	•	<u> </u>
Pumping time (Read from Controller): RW-1 573 :hr	53 :min	RW-3 501 :hr 52 :min
RW-2 482 :hr	10 :min	RW-4 513 :hr 27 :min
		- -
FREE PRODUCT MEASUREMENTS		
Free Product in RW-1 (in): 0.00	Free Product	t in RW-3 (in): 0 - see notes
Free Product in RW-2 (in): 0.00	Free Product	t in RW-4 (in): 0.25
1100 1 10000 m 1111 2 (m).	_	0.20
Remarks: 0.10 gallon was drained from compressor. The flui	d in DW 2 appeared to inc	oludo an ail water emulcian net proviously
seen. Phase-separated product was not in visual e		clude all oil-water emulsion flot previously
seen. Phase-separated product was not in vi	Suai EVIUETICE.	
Contact: S. Stanford, Weaver Consultants Group, LLC	(574) 271-3447 Tel.	Project No. 2387-354-04-11

Contact: S. Stanford, Weaver Consultants Group, LLC

(574) 271-3447 Tel. (574) 271-3343 Fax.

7121 Grape Road Granger, Indiana 46530

sstanford@wcgrp.com



Locomotive Shop Diesel Fuel Remediation System

Date: 4/17/2015 Time: 12:45 PM Observations by: Alex Huang Weather Conditions: Sunny, 71° F. Weaver Consultants Group, LLC	
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full Tank N :Low Vac. N :Low Press. N :Fire Suppression Blower Operating Normally? (Y/N): Y Blower Vacuum on Arrival (in H ₂ O): 15 Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Y Blower Vacuum on Departure (in H ₂ O): 15 If no, was it replaced? Observed cycle pressures (psi): :Low :High	1
Compressor Auto Drain OK? (Y/N): N Pump Pressure (psi): 89 Shed Exhaust Fan Working Normally? (Y/N): Y Shed Heater Operating Normally? (Y/N): Y Water in Vacuum Lines? No significant quantity purged.	
OIL RECOVERY MEASUREMENTS	
Total Fluid Level in Tank (in): 26.00 Total Fluid Volume in Tank (gal): 285.90 285.36	
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free Product in RW-3 (in): 1.00 Free Product in RW-2 (in): 0.00 Free Product in RW-4 (in): 0.10	
Remarks: 0.15 gallon was drained from compressor. One week after reconditioned skimmer pumps were reinstalled in RW-3 and RW-4, the oil volume in the tank increased slightly and the free product thickness observed in RW-3 and RW-4 was reduced from the prior week.	

Contact: S. Stanford, Weaver Consultants Group, LLC

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Locomotive Shop Diesel Fuel Remediation System

Date: 4/10/2015 Time: 1:15 PM Observations by: Alex Huang Weather Conditions: Sunny and windy, 59° F. Weaver Consultants Group, LLC	
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full Tank N :Low Vac. N :Low Press. N :Fire Suppression Blower Operating Normally? (Y/N): Y Blower Vacuum on Arrival (in H ₂ O): 15 Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Y Compressor Auto Drain OK? (Y/N): N Compressor Auto Drain OK? (Y/N): N Blower Vacuum on Departure (in H ₂ O): 15 If no, was it replaced? Observed cycle pressures (psi): :Low :Hi	gh
Pump Pressure (psi): 90 Shed Exhaust Fan Working Normally? (Y/N): Y Set Point for Operation (°F): 90 Shed Heater Operating Normally? (Y/N): Y Set Point for Operation (°F): Min + 2 Water in Vacuum Lines? A small amount (< 0.1 gallon) purged from knockout tank	_
OIL RECOVERY MEASUREMENTS	
Total Fluid Level in Tank (in): 25.50 Water Level in Tank (in): 24.25 Water Level in Tank (in): 24.25 Oil Volume in Tank (total fluid volume less water volume (gal): 17.13	_ _ _ _
Pumping time (Read from Controller): RW-1 564 :hr 33 :min RW-3 492 :hr 31 :min RW-2 477 :hr 30 :min RW-4 504 :hr 6 :min	
1.00 <u>2</u>	
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free Product in RW-3 (in): 2.00 Free Product in RW-2 (in): 0.00 Free Product in RW-4 (in): 4.00	
Remarks: 0.15 gallon was drained from compressor. Reconditioned skimmer pumps were re-installed in RW-3 and RW-4 and both were programmed to activate four times a day alongside RW-1 and RW-2. All four skimmer pumps were adjusted so that the static water level is approximately in the center of the screened interval of each pump.	

Contact: S. Stanford, Weaver Consultants Group, LLC

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sstanford@wcgrp.com K:\Wbgm\Client Information\2300-2399\2387 - ArcMITTAL\354\04 - Rem O&M\2015 Weekly Status Reports\Weekly Status Report 4-10-2015.xls



Locomotive Shop Diesel Fuel Remediation System

Date: 4/3/2015 Time: 1:00 PM Weather Conditions: Partly cloudy, 50° F.	Observations by: Alex Huang Weaver Consultants Group, LLC
FUNCTIONAL PARAMETERS	
Panel Warning Lights Illuminated? (Y/N): N :Full Tank Blower Operating Normally? (Y/N): Y Blower Vacuum on Arrival (in H ₂ O): 16 Blower Filter OK? (Y/N): Y Air Compressor Operating Normally? (Y/N): Y Compressor Auto Drain OK? (Y/N): N Pump Pressure (psi): 87	N :Low Vac. N :Low Press. N :Fire Suppression Blower Vacuum on Departure (in H_2O): 15 If no, was it replaced? Observed cycle pressures (psi): 130 :Low 180 :High
Shed Exhaust Fan Working Normally? (Y/N): Y Shed Heater Operating Normally? (Y/N): Y Water in Vacuum Lines? Yes, 1 gallon purged f	Set Point for Operation (°F): 90 Set Point for Operation (°F): Min + 2 from knockout tank
OIL RECOVERY MEASUREMENTS	
Total Fluid Level in Tank (in): 25.25 Water Level in Tank (in): 24.00 Oil Volur	Total Fluid Volume in Tank (gal): 275.64 Water Volume in tank (gal): 258.52 me in Tank (total fluid volume less water volume (gal): 17.12
	53 :min RW-3 492 :hr 31 :min (inactive) 10 :min RW-4 504 :hr 6 :min (inactive)
FREE PRODUCT MEASUREMENTS	
Free Product in RW-1 (in): 0.00 Free Product in RW-2 (in): 0.00	Free Product in RW-3 (in): 2.50 Free Product in RW-4 (in): 4.00
Remarks: 0.10 gallon was drained from compressor. RW-3 and	d RW-4 remain inactive, but their skimmer pumps
were sent to the manufacturer for service.	

Contact: S. Stanford, Weaver Consultants Group, LLC

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APPENDIX C

Groundwater Sampling Field Sheets and Results

7121 Grape Road, Granger, IN 46530

File No:	2387-354-04-11
Facility:	ArcelorMittal Burns Harbor
Address:	250 W. U.S. 12 Burns Harbor, IN
roject Name:	Loco Shop 2Q2015 Report
Date:	5/22/2015

Sample ID:	N	ИW-1		Sample Source:	Monitorir	ng Well	
Type of Sample: Ground	water_						
Equipment Used:	Purging	Peristaltic	e Pump				
	Sampling						
		PUR	GING INFORM	ATION			
Purge Date	5/22/2015	5			End Purgo	e <u>12:00</u>	
Water Volume in Casing (g	gallons)		1.49	Volume purged	(liters)	5.5	
		N	MEASUREMEN	NTS			
Well Diameter	2.00	(inches)		#1	#2	#3	#4
Stick up	0	(feet)	pH (std)	8.10	8.22	8.23	
Water Level	10.88	(feet)			.1	0	
Total Depth	20.00	(feet)		20.9	20.1	20.2	
Height of Water Col.	9.12	(feet)	Eh (mV)				
			DO (mg/l)				
Methane		(%)					
Oxygen		(%)		RPD, #2 and #3		RPD, #3 and #4	
Carbon Dioxide		(%)	pH (std)	0.12%			
		 "	SC (uS)	-100.00%			
Notes:			Temp (C)	0.50%			
			Eh (mV)				
			DO (mg/l)				
		SAN	IPLE INFORM	ATION			
Sampling Date:		5	/22/2015				
Sampling Time:			12:00				
Sample Appearance/Odor:		Mostly co	olorless, with slig	ht cloudiness an	d mild or	ganic odor	
Weather Conditions:		Clear, sur	nny				
Comments:							
-							
Sampler Name (Print):	Alex Huan	σ					
F		0		•			

7121 Grape Road, Granger, IN 46530

File No:	2387-354-04-11
Facility:	ArcelorMittal Burns Harbor
Address:	250 W. U.S. 12 Burns Harbor, IN
Project Name:	Loco Shop 2Q2015 Report
Date:	5/22/2015

Sample ID:	R	2W-1		Sample Source:	Remediati	on/Pumping Well	
Type of Sample: Ground	water_						
Equipment Used:	Purging	Peristaltic	Pump				
1 1	Sampling	Peristaltic					
		PIIR	GING INFORM	IATION			
Purge Date	5/22/2015		JING INFORM		End Purge	11:00	
Water Volume in Casing (§			5.69	Volume purged	U	5.5	
vater votame in casing (g	,unons)	-	3.07	voidine purged	(Inters)		
		N	MEASUREMEN	NTS			
Well Diameter	4.00	(inches)		#1	#2	#3	#4
Stick up	0	(feet)	pH (std)	7.94	7.58	7.61	
Water Level	11.29	(feet)		0.2	0.2	0.2	
Total Depth	20.00	(feet)	Temp (C)	19.9	17.7	18.7	
Height of Water Col.	8.71	(feet)	Eh (mV)				
		_	DO (mg/l)				
Methane		(%)					
Oxygen		(%)		RPD, #2 and #3		RPD, #3 and #4	
Carbon Dioxide		(%)	pH (std)	0.40%			
		_	SC (uS)	0.00%			
Notes:			Temp (C)	5.65%			
			Eh (mV)				
			DO (mg/l)				
		SAM	PLE INFORM	ATION			
Sampling Date:		5/	/22/2015				
Sampling Time:			11:00				
Sample Appearance/Odor:		Mostly co	lorless, with slig	ht cloudiness an	d mild org	ganic odor	
Weather Conditions:		Clear, sun					
Comments:							
Sampler Name (Print):	Alex Huan	σ					
	- III II IIII	D		=			

7121 Grape Road, Granger, IN 46530

File No:	2387-354-04-11
Facility:	ArcelorMittal Burns Harbor
Address:	250 W. U.S. 12 Burns Harbor, IN
roject Name:	Loco Shop 2Q2015 Report
Date:	5/22/2015

Sample ID:	Sample Source: R	emediati	on/Pumping Well								
Type of Sample: Groundy	<u>vater</u>										
Equipment Used:	Purging	Peristaltic Pump)								
	Sampling	Peristaltic Pump									
		PURGING	INFORM	ATION							
Purge Date 5/22/2015 End Purge11:30											
Water Volume in Casing (gallons) 5.73 Volume purged (liters) 5.5											
		MEAS	UREMEN	VTS							
Well Diameter	4.00	(inches)		#1	#2	#3	#4				
Stick up	0	(feet)	pH (std)	7.76	7.96	7.89					
Water Level	11.22	(feet)	SC (mS)	0.2	0.4	0.4					
Total Depth	20.00	(feet)	Temp (C)	20.9	20.3	19.8					
Height of Water Col.	8.78	(feet)	Eh (mV)								
		De	O (mg/l)								
Methane		(%)									
Oxygen		(%)		RPD, #2 and #3		RPD, #3 and #4					
Carbon Dioxide		(%)	pH (std)	-0.88%							
		-	SC (uS)	0.00%							
Notes:			Temp (C)	-2.46%							
			Eh (mV)								
		De	O (mg/l)								
		SAMPLE 1	NFORM	ATION							
Sampling Date:		5/22/201	15								
Sampling Time:		11:30									
Sample Appearance/Odor:		Mostly colorless	, with slig	ht cloudiness and	mild org	ganic odor					
Weather Conditions:		Clear, sunny									
Comments:											
Sampler Name (Print):	Alex Huang	5									

7121 Grape Road, Granger, IN 46530

File No:	2387-354-04-11
Facility:	ArcelorMittal Burns Harbor
Address:	250 W. U.S. 12 Burns Harbor, IN
roject Name:	Loco Shop 2Q2015 Report
Date:	5/22/2015

,,,				24.6.		0,22,2010	
Sample ID: RW-3			Sa	ample Source:	Remediati	on/Pumping Well	
Type of Sample: Groun	dwater			•			
Equipment Used:	Purging	Peristaltic	Pumn				
Equipment Osca.	Sampling	Peristaltic					
	Sumpring		•				
			GING INFORMA	ATION			
Purge Date	5/22/2015	5			End Purge		
Water Volume in Casing	(gallons)		5.62 V	olume purged	(liters)	5.5	
		N	MEASUREMENT	ΓS			
Well Diameter	4.00	(inches)		#1	#2	#3	#4
Stick up	0	(feet)	pH (std)	8.02	7.82	7.79	
Water Level	11.40	(feet)	SC (mS)	0.2	0.2	0.2	
Total Depth	20.00	(feet)	Temp (C)	22.7	21.5	21.2	
Height of Water Col.	8.60	(feet)	Eh (mV)				
			DO (mg/l)				
Methane		(%)					
Oxygen		_(%)	R	PD, #2 and #3		RPD, #3 and #4	
Carbon Dioxide		(%)	pH (std)	-0.38%			
			SC (uS)	0.00%			
Notes:			Temp (C)	-1.40%			
			Eh (mV)				
			DO (mg/l)				
		SAM	IPLE INFORMA	TION			
Sampling Date:		5/	/22/2015				
Sampling Time:			12:30			_	
Sample Appearance/Odor	r:	Mostly co	lorless, with sligh	t cloudiness an	d mild org	anic odor	
Weather Conditions:		Clear, sun	nny				
Comments:							
						_	
						_	
Sampler Name (Print):	Alex Huan	σ					
-F (2 2200).		0					

7121 Grape Road, Granger, IN 46530

File No:	2387-354-04-11
Facility:	ArcelorMittal Burns Harbor
Address:	250 W. U.S. 12 Burns Harbor, IN
roject Name:	Loco Shop 2Q2015 Report
Date:	5/22/2015

San	nple ID:	I	RW-4	S	ample Source:	Remediatio	n/Pumping Wel	l
Type of Sample:	-				_		1 0	
Equipment Used:		Purging	Peristaltic	Pump				
Squipment Cour		Sampling	Peristaltic	-				
			PURC	GING INFORMA	ATION			
Purge Date		5/22/2015				End Purge	13:00	
Water Volume in 6				5.49	Volume purged	•	5.5	
					1 0			
			N	IEASUREMEN	TS			
Well Diameter		4.00	(inches)		#1	#2	#3	#4
Stick up		0	(feet)	pH (std)_	7.88	7.86	7.85	
Water Level		11.59	(feet)	SC (mS)	0.2	0.1	0.1	
Total Depth		20.00	(feet)	Temp (C)	19.8	18.1	18.3	
Height of Water C	ol.	8.41	(feet)	Eh (mV)				
				DO (mg/l)				
Methane			_(%)					
Oxygen			_(%)	F	RPD, #2 and #3]	RPD, #3 and #4	
Carbon Dioxide			(%)	pH (std)	-0.13%			
				SC (uS)	0.00%			
Notes:				Temp (C)	1.10%			
				Eh (mV)				
				DO (mg/l)				
			SAM	PLE INFORMA	TION			
Sampling Date:			5/2	22/2015				
Sampling Time:				13:00				
Sample Appearance	ce/Odor:		Mostly col	lorless, with mod	lerate cloudines	s and mode	erate organic odo	or
Weather Condition			Clear, sun					
Comments: San	nple pum	ped from we	ell contained	a large number o	of bubbles that t	ook multip	le resampling	
				n the sampling co		•		
	•		•	•				



Work Order No.: 15E1058

May 29, 2015

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Re: Loco Shop Remediation

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 6 sample(s) on 5/22/2015 2:35:00PM for the analyses presented in the following report as Work Order 15E1058.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Carry Hadgala

Carey Gadzala Project Manager



WORK ORDER SAMPLE SUMMARY

Date: Friday, May 29, 2015

Client: Arcelor Mittal USA, Inc.

Project: Loco Shop Remediation

Lab Order: 15E1058

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
15E1058-01	MW-1		05/22/2015 12:00	5/22/2015 2:35:00PM
15E1058-02	RW-1		05/22/2015 11:00	5/22/2015 2:35:00PM
15E1058-03	RW-2		05/22/2015 11:30	5/22/2015 2:35:00PM
15E1058-04	RW-3		05/22/2015 12:30	5/22/2015 2:35:00PM
15E1058-05	RW-4		05/22/2015 13:00	5/22/2015 2:35:00PM
15E1058-06	Trip Blank		05/22/2015 13:00	5/22/2015 2:35:00PM



Analytical Results Date: Friday, May 29, 2015

Arcelor Mittal USA, Inc. Client: Loco Shop Remediation **Client Project:**

Work Order/ID: 15E1058-01 MW-1 05/22/2015 12:00 **Client Sample ID:** Sampled:

05/22/2015 14:35 **Sample Description:** Received:

Matrix: Aqueous

Analyses	Certs	ΑT	Result	RL	Qual	Units	DF	Analyzed
		Method: SW-846 8270C Analyst: ALS					::ALS	
Semivolatile Organic Compounds	Prep Method: SW846 3510				Prep D	ate/Time	:05/27/2015 11:52	
Benzo[a]anthracene	chmp	Α	ND	0.10		μg/L	1	05/29/2015 3:32

			Method: SW-	846 8270C		Analys	t: ALS	
L Polynuclear Aromatic Hydrocarb	ons by GC/MS		Prep Method: SW8	46 3510	Prep Da	Prep Date/Time: 05/27/2015 11:52		
Acenaphthene	chmp	Α	3.4	0.52	μg/L	1	05/27/2015 16:11	
Acenaphthylene	chmp	Α	0.53	0.52	μg/L	1	05/27/2015 16:11	
Anthracene	chmp	Α	0.79	0.52	μg/L	1	05/27/2015 16:11	
Benzo[a]pyrene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:11	
Benzo[b]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:11	
Benzo[g,h,i]perylene	chmp	Α	ND	0.21	μg/L	1	05/27/2015 16:11	
Benzo[k]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:11	
Chrysene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:11	
Dibenz[a,h]anthracene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:11	
Fluoranthene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:11	
Fluorene	chmp	Α	4.3	0.52	μg/L	1	05/27/2015 16:11	
Indeno[1,2,3cd]pyrene	chmp	Α	0.031	0.021	μg/L	1	05/27/2015 16:11	
Naphthalene	chmp	Α	27	0.52	μg/L	1	05/27/2015 16:11	
Phenanthrene	chmp	Α	4.4	0.52	μg/L	1	05/27/2015 16:11	
Pyrene	chmp	Α	1.9	0.52	μg/L	1	05/27/2015 16:11	
Surr: 2-Fluorobiphenyl		S	42.8	10-110	%REC	1	05/27/2015 16:11	
Surr: Nitrobenzene-d5		S	59.7	10-110	%REC	1	05/27/2015 16:11	
Surr: Terphenyl-d14		S	37.2	16.8-110	%REC	1	05/27/2015 16:11	

			Method: SW-	-846 8260B		:jln	
BTEX					Prep Da	te/Time	:05/27/2015 08:52
Benzene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 16:20
Ethylbenzene	chmp	Α	130	5.0	μg/L	1	05/27/2015 16:20
m,p-Xylene	chmp	Α	260	5.0	μg/L	1	05/27/2015 16:20
o-Xylene	chmp	Α	24	5.0	μg/L	1	05/27/2015 16:20
Toluene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 16:20
Total Xylenes	chmp	М	280	5.0	μg/L	1	05/27/2015 16:20
Surr: 4-Bromofluorobenzene		S	102	80-120	%REC	1	05/27/2015 16:20



Analytical Results Date: Friday, May 29, 2015

Client: Arcelor Mittal USA, Inc.
Client Project: Loco Shop Remediation

 Client Project:
 Loco Shop Remediation
 Work Order/ID:
 15E1058-02

 Client Sample ID:
 RW-1
 Sampled:
 05/22/2015
 11:00

Sample Description: Received: 05/22/2015 14:35

Matrix: Aqueous

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SW-	846 8270C			Analyst	ALS
Semivolatile Organic Compounds			Prep Method: SW8	46 3510		Prep Da	ate/Time	:05/27/2015 11:52
Benzo[a]anthracene	chmp	Α	ND	0.10		μg/L	1	05/29/2015 3:51

			Method: SW-	846 8270C		Analyst: ALS			
LL Polynuclear Aromatic Hydrocarbons by GC	MS		Prep Method: SW	346 3510	Prep Da	ite/Time	:05/27/2015 11:52		
Acenaphthene	chmp	Α	1.4	0.51	μg/L	1	05/27/2015 16:30		
Acenaphthylene	chmp	Α	ND	0.51	μg/L	1	05/27/2015 16:30		
Anthracene	chmp	Α	ND	0.51	μg/L	1	05/27/2015 16:30		
Benzo[a]pyrene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:30		
Benzo[b]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:30		
Benzo[g,h,i]perylene	chmp	Α	ND	0.20	μg/L	1	05/27/2015 16:30		
Benzo[k]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:30		
Chrysene	chmp	Α	ND	0.51	μg/L	1	05/27/2015 16:30		
Dibenz[a,h]anthracene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:30		
Fluoranthene	chmp	Α	ND	0.51	μg/L	1	05/27/2015 16:30		
Fluorene	chmp	Α	1.2	0.51	μg/L	1	05/27/2015 16:30		
Indeno[1,2,3cd]pyrene	chmp	Α	ND	0.020	μg/L	1	05/27/2015 16:30		
Naphthalene	chmp	Α	0.70	0.51	μg/L	1	05/27/2015 16:30		
Phenanthrene	chmp	Α	1.8	0.51	μg/L	1	05/27/2015 16:30		
Pyrene	chmp	Α	1.0	0.51	μg/L	1	05/27/2015 16:30		
Surr: 2-Fluorobiphenyl		S	39.4	10-110	%REC	1	05/27/2015 16:30		
Surr: Nitrobenzene-d5		S	58.5	10-110	%REC	1	05/27/2015 16:30		
Surr: Terphenyl-d14		S	21.3	16.8-110	%REC	1	05/27/2015 16:30		

			Method: SW-846 8260B Analyst: jln					::jln
BTEX Prep Date/Tim								:05/27/2015 08:52
Benzene	chmp	Α	ND	5.0		μg/L	1	05/27/2015 16:42
Ethylbenzene	chmp	Α	ND	5.0		μg/L	1	05/27/2015 16:42
m,p-Xylene	chmp	Α	ND	5.0		μg/L	1	05/27/2015 16:42
o-Xylene	chmp	Α	ND	5.0		μg/L	1	05/27/2015 16:42
Toluene	chmp	Α	ND	5.0		μg/L	1	05/27/2015 16:42
Total Xylenes	chmp	М	ND	5.0		μg/L	1	05/27/2015 16:42
Surr: 4-Bromofluorobenzene		S	99.2	80-120		%REC	1	05/27/2015 16:42



Analytical Results Date: Friday, May 29, 2015

Client: Arcelor Mittal USA, Inc.
Client Project: Loco Shop Remediation

 Client Project:
 Loco Shop Remediation
 Work Order/ID:
 15E1058-03

 Client Sample ID:
 RW-2
 Sampled:
 05/22/2015
 11:30

Sample Description: Received: 05/22/2015 14:35

Matrix: Aqueous

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SW	-846 8270C			Analyst	ALS
Semivolatile Organic Compounds			Prep Method: SW	846 3510		Prep D	ate/Time	:05/27/2015 11:52
Benzo[a]anthracene	chmp	Α	ND	0.10		μg/L	1	05/29/2015 4:10

			Method: SW-	846 8270C		Analyst: ALS			
LL Polynuclear Aromatic Hydrocarbons by GC	MS		Prep Method: SW	346 3510	Prep Da	ate/Time	e:05/27/2015 11:52		
Acenaphthene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:50		
Acenaphthylene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:50		
Anthracene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:50		
Benzo[a]pyrene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:50		
Benzo[b]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:50		
Benzo[g,h,i]perylene	chmp	Α	ND	0.21	μg/L	1	05/27/2015 16:50		
Benzo[k]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:50		
Chrysene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:50		
Dibenz[a,h]anthracene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 16:50		
Fluoranthene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:50		
Fluorene	chmp	Α	0.52	0.52	μg/L	1	05/27/2015 16:50		
Indeno[1,2,3cd]pyrene	chmp	Α	ND	0.021	μg/L	1	05/27/2015 16:50		
Naphthalene	chmp	Α	0.52	0.52	μg/L	1	05/27/2015 16:50		
Phenanthrene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 16:50		
Pyrene	chmp	Α	0.86	0.52	μg/L	1	05/27/2015 16:50		
Surr: 2-Fluorobiphenyl		S	33.2	10-110	%REC	1	05/27/2015 16:50		
Surr: Nitrobenzene-d5		S	49.0	10-110	%REC	1	05/27/2015 16:50		
Surr: Terphenyl-d14		S	22.9	16.8-110	%REC	1	05/27/2015 16:50		

			ivietnod: Sw-		Analyst: Jin				
BTEX				Prep Da	Prep Date/Time: 05/27/2015 08:52				
Benzene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:03		
Ethylbenzene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:03		
m,p-Xylene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:03		
o-Xylene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:03		
Toluene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:03		
Total Xylenes	chmp	М	7.4	5.0	μg/L	1	05/27/2015 17:03		
Surr: 4-Bromofluorobenzene		S	99.6	80-120	%REC	1	05/27/2015 17:03		



Analytical Results Date:

Client: Arcelor Mittal USA, Inc.
Client Project: Loco Shop Remediation

 Client Project:
 Loco Shop Remediation
 Work Order/ID:
 15E1058-04

 Client Sample ID:
 RW-3
 Sampled:
 05/22/2015
 12:30

Sample Description: Received: 05/22/2015 14:35

Matrix: Aqueous

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SW-	846 8270C			Analyst	ALS
Semivolatile Organic Compounds	Prep Method: SW846 3510					Prep D	ate/Time	:05/27/2015 11:52
Benzo[a]anthracene	chmp	Α	ND	0.10		μg/L	1	05/29/2015 4:29

			Method: SW-	846 8270C		Analys	t: ALS
Polynuclear Aromatic Hydrocarb	ons by GC/MS		Prep Method: SW8	346 3510	Prep Da	ate/Time	e:05/27/2015 11:52
Acenaphthene	chmp	Α	2.0	0.52	μg/L	1	05/27/2015 17:09
Acenaphthylene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 17:09
Anthracene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 17:09
Benzo[a]pyrene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 17:09
Benzo[b]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 17:09
Benzo[g,h,i]perylene	chmp	Α	ND	0.21	μg/L	1	05/27/2015 17:09
Benzo[k]fluoranthene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 17:09
Chrysene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 17:09
Dibenz[a,h]anthracene	chmp	Α	ND	0.10	μg/L	1	05/27/2015 17:09
Fluoranthene	chmp	Α	ND	0.52	μg/L	1	05/27/2015 17:09
Fluorene	chmp	Α	2.8	0.52	μg/L	1	05/27/2015 17:09
Indeno[1,2,3cd]pyrene	chmp	Α	ND	0.021	μg/L	1	05/27/2015 17:09
Naphthalene	chmp	Α	16	0.52	μg/L	1	05/27/2015 17:09
Phenanthrene	chmp	Α	3.3	0.52	μg/L	1	05/27/2015 17:09
Pyrene	chmp	Α	0.75	0.52	μg/L	1	05/27/2015 17:09
Surr: 2-Fluorobiphenyl		S	45.7	10-110	%REC	1	05/27/2015 17:09
Surr: Nitrobenzene-d5		S	62.4	10-110	%REC	1	05/27/2015 17:09
Surr: Terphenyl-d14		S	20.4	16.8-110	%REC	1	05/27/2015 17:09

			Method: SW-		Analyst: Jin				
BTEX					Prep Da	ate/Time	:05/27/2015 08:52		
Benzene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:25		
Ethylbenzene	chmp	Α	39	5.0	μg/L	1	05/27/2015 17:25		
m,p-Xylene	chmp	Α	55	5.0	μg/L	1	05/27/2015 17:25		
o-Xylene	chmp	Α	150	5.0	μg/L	1	05/27/2015 17:25		
Toluene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:25		
Total Xylenes	chmp	М	210	5.0	μg/L	1	05/27/2015 17:25		
Surr: 4-Bromofluorobenzene		S	103	80-120	%REC	1	05/27/2015 17:25		

Friday, May 29, 2015



Analytical Results Date: Friday, May 29, 2015

Client: Arcelor Mittal USA, Inc.
Client Project: Loco Shop Remediation

 Client Project:
 Loco Shop Remediation
 Work Order/ID:
 15E1058-05

 Client Sample ID:
 RW-4
 Sampled:
 05/22/2015
 13:00

Sample Description: Received: 05/22/2015 14:35

Matrix: Aqueous

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SW-	846 8270C			Analyst	ALS
Semivolatile Organic Compounds	Prep Method: SW846 3510				Prep D	Date/Time	05/27/2015 11:52	
Benzo[a]anthracene	chmp	Α	ND	0.10		μg/L	1	05/29/2015 4:47

			Method: SW-	846 8270C		Analys	::ALS	
L Polynuclear Aromatic Hydrocarbons by G	C/MS		Prep Method: SW8	346 3510		Prep Da	ite/Time	:05/27/2015 11:52
Acenaphthene	chmp	Α	3.2	0.52		μg/L	1	05/27/2015 17:29
Acenaphthylene	chmp	Α	0.64	0.52		μg/L	1	05/27/2015 17:29
Anthracene	chmp	Α	0.84	0.52		μg/L	1	05/27/2015 17:29
Benzo[a]pyrene	chmp	Α	ND	0.10		μg/L	1	05/27/2015 17:29
Benzo[b]fluoranthene	chmp	Α	ND	0.10		μg/L	1	05/27/2015 17:29
Benzo[g,h,i]perylene	chmp	Α	ND	0.21		μg/L	1	05/27/2015 17:29
Benzo[k]fluoranthene	chmp	Α	ND	0.10		μg/L	1	05/27/2015 17:29
Chrysene	chmp	Α	ND	0.52		μg/L	1	05/27/2015 17:29
Dibenz[a,h]anthracene	chmp	Α	ND	0.10		μg/L	1	05/27/2015 17:29
Fluoranthene	chmp	Α	ND	0.52		μg/L	1	05/27/2015 17:29
Fluorene	chmp	Α	5.3	0.52		μg/L	1	05/27/2015 17:29
Indeno[1,2,3cd]pyrene	chmp	Α	ND	0.021		μg/L	1	05/27/2015 17:29
Naphthalene	chmp	Α	20	0.52		μg/L	1	05/27/2015 17:29
Phenanthrene	chmp	Α	5.8	0.52		μg/L	1	05/27/2015 17:29
Pyrene	chmp	Α	2.0	0.52		μg/L	1	05/27/2015 17:29
Surr: 2-Fluorobiphenyl		S	48.9	10-110		%REC	1	05/27/2015 17:29
Surr: Nitrobenzene-d5		S	63.9	10-110		%REC	1	05/27/2015 17:29
Surr: Terphenyl-d14		S	16.2	16.8-110	S	%REC	1	05/27/2015 17:29

			Method: SW-	Method: SW-846 8260B Analyst: jln			
BTEX Prep Date/Time:							
Benzene	chmp	Α	8.8	5.0	μg/L	1	05/27/2015 17:46
Ethylbenzene	chmp	Α	49	5.0	μg/L	1	05/27/2015 17:46
m,p-Xylene	chmp	Α	95	5.0	μg/L	1	05/27/2015 17:46
o-Xylene	chmp	Α	57	5.0	μg/L	1	05/27/2015 17:46
Toluene	chmp	Α	ND	5.0	μg/L	1	05/27/2015 17:46
Total Xylenes	chmp	М	150	5.0	μg/L	1	05/27/2015 17:46
Surr: 4-Bromofluorobenzene		S	102	80-120	%REC	1	05/27/2015 17:46



Analytical Results Date: Friday, May 29, 2015

Arcelor Mittal USA, Inc. Client: Loco Shop Remediation **Client Project:**

Work Order/ID: 15E1058-06 Trip Blank 05/22/2015 13:00 **Client Sample ID:** Sampled:

Sample Description:

05/22/2015 14:35 Received: Matrix: Aqueous

Analyses Certs AT Result RL Qual Units DF **Analyzed** Method: SW-846 8260B Analyst:jln Prep Date/Time: 05/27/2015 08:52 **BTEX** μg/L Benzene chmp Α ND 5.0 05/27/2015 18:08 Ethylbenzene Α ND 5.0 μg/L 05/27/2015 18:08 chmp ND m,p-Xylene Α 5.0 μg/L 05/27/2015 18:08 chmp ND 5.0 μg/L 05/27/2015 18:08 o-Xylene Α chmp Toluene Α ND 5.0 μg/L 1 05/27/2015 18:08 chmp ND 5.0 μg/L 05/27/2015 18:08 **Total Xylenes** Μ chmp %REC Surr: 4-Bromofluorobenzene 99.2 80-120 05/27/2015 18:08



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

- B = Detected in the associated method Blank at a concentration above the routine RL
- b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL
- b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A.B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank ICSA = Interference Check Standard "A' DUP = Method Duplicate ICSAB = Interference Check Standard "AB" BSD = Method Blank Spike Duplicate BS = Method Blank Spike MS = Matrix Spike MSD = Matrix Spike Duplicate ICB = Initial Calibration Blank ICV = Initial Calibration Verification CCB = Continuing Calibration Blank CCV = Continuing Calibration Verification CRL = Client Required Reporting Limit OPR = Ongoing Precision and Recovery Standard SD = Serial Dilution

PDS = Post Digestion Spike

QCS = Quality Control Standard

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- The American Association for Laboratory Accreditation [A2LA] for Biological Testing, ISO/IEC 17025 (Certificate# 3045.01)
- The American Association for Laboratory Accreditation [A2LA] for Environmental Department of Defense Testing, ISO/IEC 17025 (Certificate# 3045.02)
- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #200064)
- Illinois DOPH for the microbiological analysis of drinking water (registry #1755266)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana State Board of Animal Health for microbiological analysis of dairy containers (18137)
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
- Kansas DPHE for the analysis of drinking water, wastewater, and solid hazardous waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Certificate No. E-10397)
- Kentucky DEP for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
- Kentucky EEC Wastewater Laboratory Certification Program for the analysis of wastewater (lab #90147)
- New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab#12006;accreditation #49179)
- New York SDOH in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (Lab# 12006; accreditation #49386)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
- Pennsylvania Department of Environmental Protection [NELAP] (Lab# 68-04863)
- United States Department of Agriculture Animal and Plant Health Inspection Service Permit To Receive Soil (Permit #P330-12-00174))
- Washington State Department of Ecology in accordance to Ch. 173-50 WAC (lab #C992)
- Wisconsin Department of Natural Resources for the chemical analysis of wastewater and solid waste (lab #998036710)
- Center for Disease Control [CDC] ELITE Proficiency Program member Laboratories, Inc.



COOLER INSPEC			Date:	Friday	y, May 29, 201	5						
Client Name: Arcelor	Date/Time Received: 05/22/2015 14:35											
Work Order Number:	15E1058		Recei	ived by:	Chase	e Freeland						
Checklist completed by:	5/22/2015 2:49:00PM	Chase Freeland	Revie	ewed by:	5/22/2	G						
		Carrier Name:					•					
	Cooler ID: Default Cooler		Cor	ntainer/Te	mn Dlanl	Tomp	arotura:	16.2° C				
`	Coolei ID. Delault Coolei		Coi	itamer/ re	шр ыаш	rempe	crature.	10.2 C				
Custody seals intact of COC present? COC included sufficient COC included a sample COC agrees with same COC identified the apple COC included date of COC included time of COC identified the apple samples in proper cortisations. Sufficient sample volumed Is samples received with the control of the control	n shipping container/cooler? n sample containers? nt client identification? nt sample collector information le description? ple labels? propriate matrix? collection? collection? propriate number of containers stainer/bottle? act? me for indicated test?	s?	Yes	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	No N		Not Present Not Present Not Present					
	If No, adjusted	by?										
COC included the requested analyses? COC signed when relinquished and received? Samples received on ice? Samples properly preserved? Voa vials for aqueous samples have zero headspace?			Yes Yes Yes Yes	\ \ \ \	No No No No	✓ N	Jo VOA vials s	ubmitted				
Cooler Comments:												
ANY "NO" EVALUAT	ION (excluding After-Hour Red	ceipt) REQUIRES CLIEN	NT NOTI	FICATIO	ON.							
Sample ID (Client Sample ID	Comments										
•	1W-1	1										
15E1058-02	RW-1	1										
15E1058-03	RW-2											
15E1058-04	CW-3											
15E1058-05	2W-4											
15E1058-06	rip Blank											

Microbac Laboratories, Inc.

MICROBAC® Submitted	. !	Merriliville, IN 46410 Tel: 219-769-8378				5713 West 85th Street Indianapolis, IN 46278 Tel: 317-872-1375 Fax: 317-872-1379					Chain of Custody Record Number 1 27595 Instructions on back							
Hent Name ODD Arcelor Mittel				Project Loco Shop remediation												ᅱ		
ddress Burns Herber			Location					[] Routine (7 working days)						[] Results Only [] Leve				
ity, State, Zip			PO #					[] RUSH* (notify lab)						Level t	•	[] Level III CLP	ı.	
ontact Tevi Kirk			Compliance Monitoring? [] Yes(1) [] No											Level !		[] Level IV CLP	1	
elephone #			(1)Agency/Program				(needed by)						[] EDD			TING		
mpled by (PRINT) Hex Huans			S	ample	r Signature	al	6_		21		S	ample	r Phon			-27	1-3447	
nd Report via [] Mail [] Telephone [] Fax	(fax f	t)							íXe-m	àll (add			Tevi	/		ગલ i	,	
* Matrix Types: Soil/Solid (S), Sludge, Oil,	Wipe	, Drink	ing W	ater (I	OW), Ground	water (GW),	Surfac	e Water	(SW)	Waste	Water (WAAA	Other /	enecific	λ			一
** Preservative Types: (1) HNO3, (2) H2SO4, (3)	HCI, ((4) Na(OH, (5	o) Zinc	Acetate, (6)	Methanol, (7) Sodiu	m Thio	sulfate	, (9) H	exane,	(U) Unp	reserv		
Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	ntaine	Reques Analys Preserv Types *	es ative	N. Co	14/2	//	//	//			For Lab Use	Only
Mw-1	GW			۲-	5/22	12:00	5	3,	и	У	X	1				f	01	
RW-1	T1					11:00	1	ĺ		i	ì					+	50	一
RW-2	Π					11:30					\Box			十	1-		63	\neg
RW-3						12:30					\Box	\dashv	1			1	04	\dashv
RW-4						13:00	Ψ								_		05	一
Trip Blank	*			1		<u>×</u>	2	V		4	4	4					06	
																		\dashv
esible Hazard Identification [] Hazardous [noments RW-4 samples in UDA mained lat of bubbles. evelop headspace in transite	-	Haza	Relin	quish	Radioactive ed By (signated By	n	Date/ Date/	/Time	osition 13: ·	45	Receiv	red By	(algna	eture) VVV	Return	(]A	Date/Time 14:0	50
webphedspace in trimits mple temperature upon receipt in degrees C =		5 5 .Z	Relinquished By (signature)				Date/Time Receive				lyed for Lab By (signature)					Date/Time 5 - 22 - 5		

[] 250 West 84th Drive

Samples

rev. 11/04/04

Page / of